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Introduction

Manual Scope

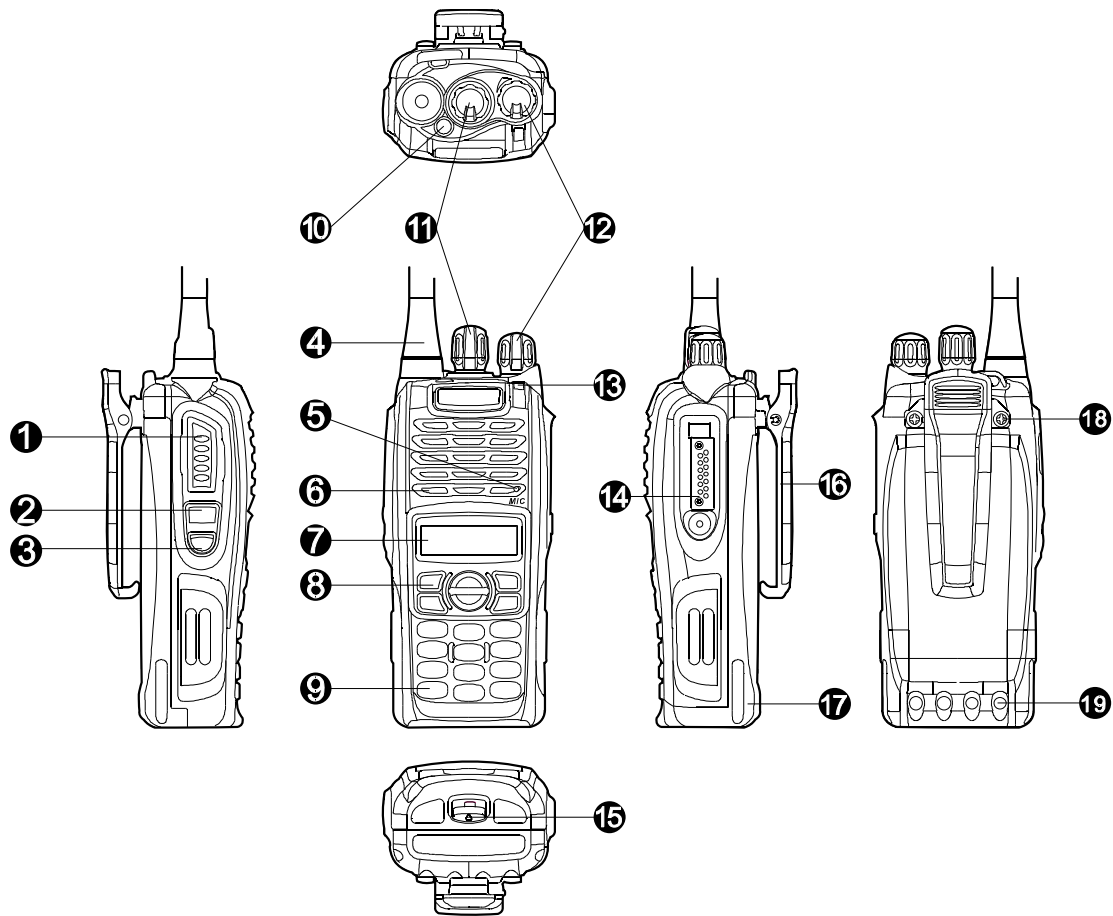
This manual is intended for use by experienced technicians familiar with similar types of communication equipment. It contains all service information required for the equipment and is current as of the publication date.

Safety Information

The following safety precautions shall always be observed during operation, service and repair of this equipment.

- ③ This equipment shall be serviced by qualified technicians only.
- ③ Use only HYT supplied or approved batteries and chargers.
- ③ To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any area where posted notices instruct you to do so. Turn off your radio before boarding an aircraft. Any use of a radio must be in accordance with airline regulations or crew instructions.
- ③ For vehicles with an air bag, do not place a radio in the area over an air bag or in the air bag deployment area.
- ③ Turn off your radio prior to entering any area with explosive and flammable materials.
- ③ Do not charge your battery in a location with explosive and flammable materials.
- ③ Turn off your radio before entering a blasting area.
- ③ Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.
- ③ Do not expose the radio to direct sunlight over a long time, nor place it close to heating source.
- ③ When transmitting with a portable radio, hold the radio in a vertical position with the microphone 3 to 4 centimeters away from your lips. Keep antenna at least 2.5 centimeters away from your body when transmitting.

Radio Overview



(1) PTT (Push-to-Talk) key	(2) SK1 (Side Key 1)	(3) SK2 (Side Key 2)	(4) Antenna
(5) Microphone	(6) Speaker	(7) LCD Display	(8) Function Keypad
(9) Numeric Keypad	(10) TK (Top Key)	(11) Channel Selector Knob	(12) Radio On-Off / Volume Control Knob
(13) LED Indicator	(14) Accessory Jack	(15) Battery Latch	(16) Belt Clip
(17) Battery	(18) Screw, Belt Clip	(19) Charging Piece	

* PTT (Push-to-Talk) Key

Press and hold down the **PTT** key to transmit, and release it to receive.

* SK1 (Side Key 1)

Programmable function key.

* SK2 (Side Key 2)

Programmable function key.

*** LCD Display**

Used to display radio status information.

*** Function Keypad**

- ③ Exit key

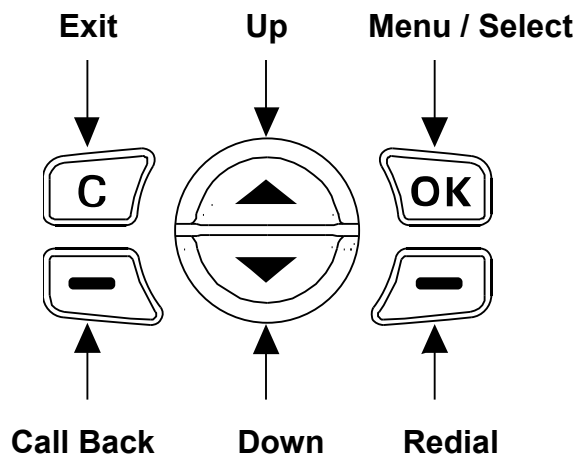
Use the Exit key to return to the previous menu.

- ③ Up key

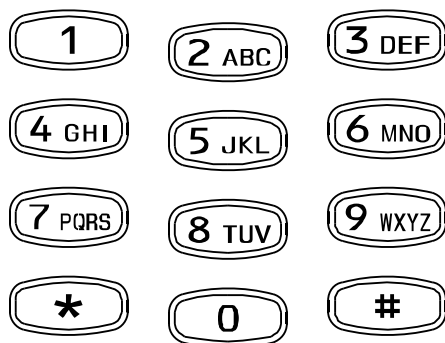
- ③ Down key

- ③ Menu / Select key

Used to enter the menu mode. When you are in the menu mode, this key is also used to make menu selections.

*** Numeric keypad**

Used to enter information for programming the radio's lists. When the radio operates in trunking mode, this key is also used to dial a phone number.

*** TK (Top Key)**

Programmable function key.

* Channel Selector Knob

Rotate the knob to select a desired channel.

* Radio On-Off / Volume Control Knob

Rotate the knob clockwise to turn the radio on, and rotate the knob fully counter-clockwise until a click is heard to turn the radio off.

Turn the knob clockwise to increase the volume, or counter-clockwise to decrease the volume.

* LED Indicator

Status		LED Indications and Tones
Wired Clone	Source radio: Turn the radio on while holding down the PTT and SK2. Target radio: Rotate the Radio On-Off knob clockwise to turn the radio on.	The orange LED flashes twice.
	Source radio: turn on the target radio and connect the cloning cable, then press the PTT on the source radio to initiate cloning.	1. LED solidly glows red when cloning is in progress; 2. LED goes out when cloning is completed; 3. LED flashes red when cloning fails.
	Target radio	1. LED solidly glows green when cloning is in progress; 2. LED goes out when cloning is completed.
Power On		The green LED flashes once.
Low Battery Alert		Three beeps are heard.
Transmitting		LED glows red.
Receiving		LED glows green when carrier presents.
Scanning		Red LED flashes once every 1 second. The green LED flashes when carrier is detected.
Programming		Reading: LED glows red; Writing: LED glows green.
Encoding (DTMF)		LED glows red while transmitting.
Select Power Level		1W: One beep is heard; 4W / 5W: Three beeps are heard.
Function Key Press		One beep to enable, two beeps to disable.

* Accessory Jack

The jack is used to connect audio accessories, or other accessories such as programming cable.

Software Specifications

Specifications

Conventional features

- ③ 32 conventional channels
- ③ DTMF encode / PTT ID
- ③ Busy Channel Lockout
- ③ Programmable Function Buttons
- ③ Time-out Timer
- ③ Emergency

Trunking Features

- ③ Menu Operation
- ③ Auto Select BS
- ③ Full Off Air Call Setup (FOACSU)
- ③ Manual Select BS
- ③ Kill / Revive
- ③ User Absent Mode
- ③ Voice Compandor
- ③ Flexible Group Call Setting
- ③ Specific ID Calling
- ③ Temporary Grouping in Roaming System
- ③ Quiet Alarm
- ③ Missed Call Display
- ③ Calling Party Number Display
- ③ High / Low Power Switchable
- ③ Customized Design
- ③ LCD Icons
- ③ Built-in Modem
- ③ User-friendly Programming Interface
- ③ 4 System Networks

Description

1. User mode

This mode is for normal operation by end users.

2. All reset mode

Allows you to initialize tuning items, channel frequency, and conventional functions. See the Adjustment Description section for details.

3. Factory wired clone mode

Select Wired Clone from Optional Features in the programming software, and then turn on the source radio while holding down the PTT and SK2 key for 2 seconds, then the source radio enters wired clone mode with orange LED flashing twice. Then rotate the Radio On-Off knob to turn the target radio on. Hold down the PTT on the source radio to begin cloning. During cloning, the source radio solidly glows red LED, and the target radio glows green LED. When cloning is successfully completed, LED of both the source radio and the target radio shall go out. The source radio shall flash red LED if cloning fails.

4. Manual adjust mode

Allows you to adjust frequency deviation, power level, sensitivity, squelch level, and etc.

Note: You must select Manual Adjust Mode from Optional Features in the programming software, before you can enter manual adjust mode. See the Adjustment Description section for details.

Circuit Description

Circuit Composition

The overall circuit is composed of PLL-VCO circuit, transmit circuit, receive circuit, baseband processing circuit, power supply circuit, and MCU control circuit.

Frequency Configuration

The receiver section utilizes double conversion. The first IF is 44.85MHz and the second IF is 455 KHz. The first local oscillator signal is supplied by PLL and VCO circuit. The second local oscillator signal is generated from TCXO (44.395MHz); The PLL and VCO circuit also generates the frequencies required by the transmit section.

1. Receive Circuit

Configuration of the receive circuit is shown in Figure 1.

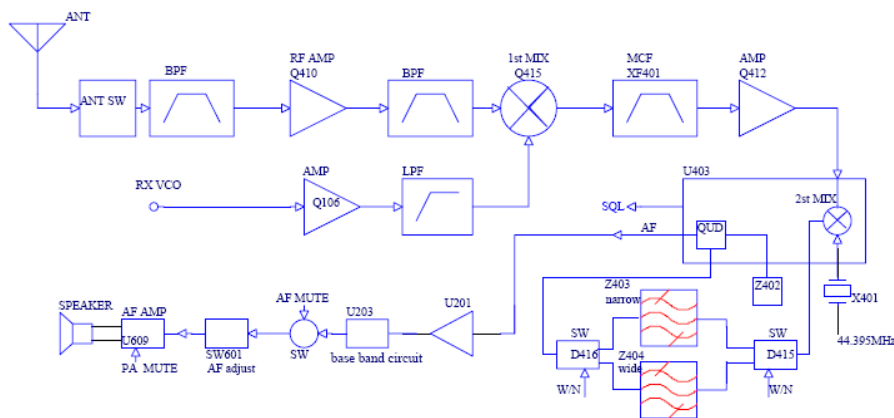


Figure 1 Receive Circuit

2. RF AMP BPF

The signal from antenna is amplified at RF amplifier (Q410) after passing through a transmit/receive switch circuit and a band pass filter. The amplified signal is filtered by a band pass filter to eliminate unwanted signals before it goes to the first mixer.

3. The First Mixer

The signal output by RF AMP BPF is mixed with the first local oscillator signal output by PLL frequency synthesizer at the first mixer (Q415) to create a 44.85 MHz first IF signal. The first IF signal is then fed through a crystal filter (XF401) to further remove spurious signals.

4. IF Amplifier

The first IF signal is amplified by Q412 and then enters U403 (TA31136FN). The signal is mixed with the second local oscillator signal (44.395MHz) again to create a 455 KHz second IF signal, which passes through a ceramic filter (wideband: Z404; narrowband: Z403) to eliminate unwanted signals. The resulting signal is detected by U403 to output audio signal from Pin 9.

5. Audio Amplifier

The Rx audio signal output by U403 is amplified by U2019, and then passes through the audio processor U203 (the received signalling is separated from the signal for decoding). The amplified signal then is fed to AF MUTE, volume switch SW601 (volume control) and Q615 (PA MUTE control). The resulting signal is finally fed to the audio amplifier U609 to output audio signal from speaker.

6. Squelch

Noise signal is derived from the Rx audio signal output by Pin 9 of U403, and is processed by U403 to produce an SQL level. The SQL level is then compared in CPU (U605) to generate a level which controls AF MUTE and PA MUTE. It controls Q204 and Q615 to enable or disable the audio path.

Transmit Circuit

The transmit circuit is composed of MIC circuit, frequency synthesizer, driver and final-stage power amplifier circuit, and the APC circuit.

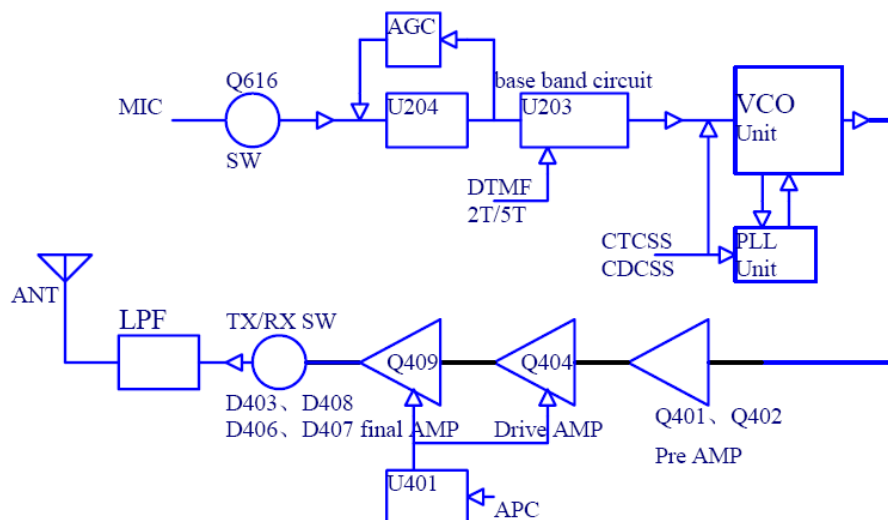


Figure 2 Transmit Circuit

1. MIC Circuit and Modulation Circuit

The audio signal from microphone is amplified by U204 after passing through the MIC control switch (Q616). The resulting signal is then amplified, pre-emphasized and etc by U203. Simultaneously, DTMF/2-Tone/5-Tone signalings generated by the MCU are amplified by U203, and then mixed with MIC audio signal, and finally fed to VCO for modulation.

2. Driver and Final-Stage Power Amplifier Circuit

RF signal from local oscillator circuit is amplified by Q401 and Q402. The amplified signal is fed to the driver stage Q404 and then the final-stage power amplifier (Q409) for amplification. The resulting signal then passes through LPF to filter harmonics before reaching the antenna for transmit.

3. APC

The automatic power control (APC) circuit stabilizes the transmit power by detecting the drain current of final-stage amplifier.

Frequency Synthesizer

PLL-VCO circuit generates frequency for receiving the first local oscillator signal and transmitting signals. PLL-VCO circuit consists of Tx frequency oscillator (Q103), Rx frequency oscillator (Q101), buffer amplifier (Q105), RF amplifier (Q107), PLL IC (U101), second harmonic circuit (Q108 and Q109) and Tx/Rx VCO control switch (Q111, Q112, Q110 and Q102).

In transmit mode, IC120 transmits the operating frequency data to PLL IC. PLL IC is turned on to activate Tx VCO. The outputted signal is amplified by Q703, Q124, and then divided by PLL IC (step: 2.5 KHz or 5 KHz, 6.25 KHz). The divided signal is compared with the reference signal from 16.8MHz crystal oscillator X101 (frequency stability: 2.5ppm) in the phase comparator. The frequency control voltage output from the phase comparator controls Tx VCO after passing through LPF. In the meantime, modulation signal (Tx) is passed to Tx VCO for frequency modulation.

The working principle in receive mode is similar to that in transmit mode.

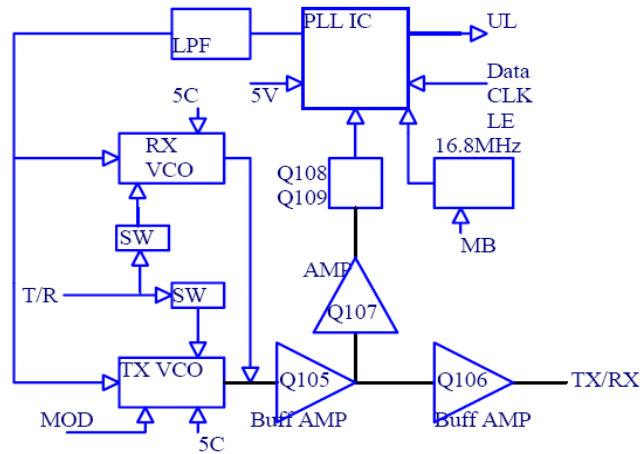


Figure 3 PLL Circuit

Control Circuit

The control circuit is comprised of MCU control circuit and power supply controller.

1. MCU

U605 (MCU) operates at 9.8304 MHz. The CPU controls data transmission among receive circuit, transmit circuit, control circuit, display circuit and peripheral circuit.

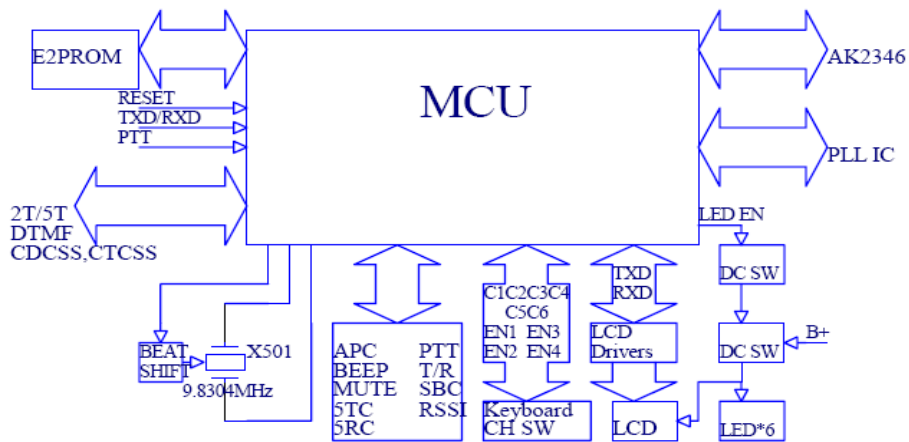


Figure 4 Control Circuit

2. Power Supply

Power supply of the radio is derived from the battery that supplies battery B+ after passing through fuse, and then passes through power switch. MCU controls power management IC (U602, U603, and U604) to generate voltage including C5V, 5CNS, R5V, T5V.

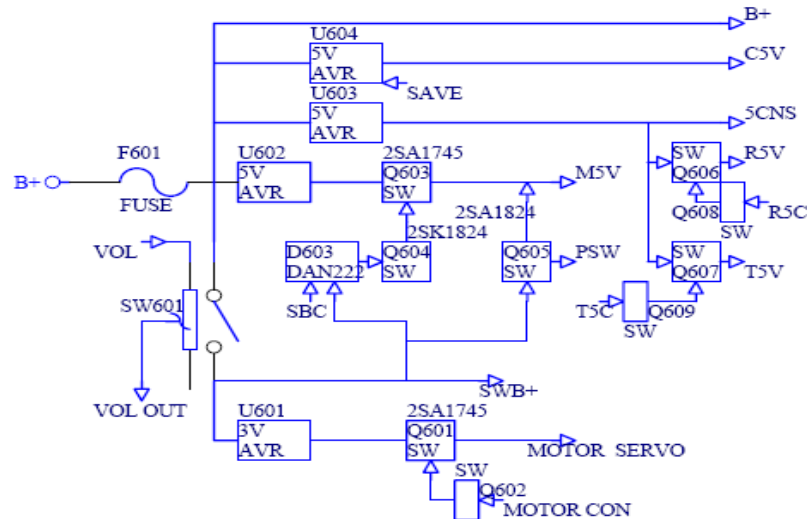


Figure 5 Power Switch Circuit

Keypad and Display Circuit

The display circuit is comprised of MCU (U605), LCD module, keyboard, LED and other components. The backlight enable pin LED_EN is controlled by MCU. When the pin LED_EN is H, the backlight shall be turned on.

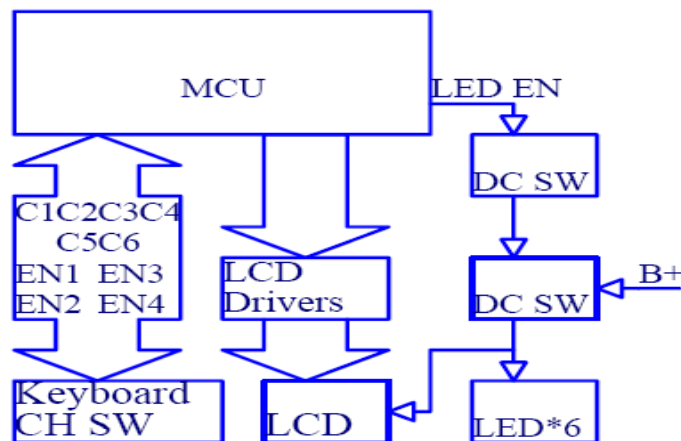


Figure 6 Display Circuit

CPU Pins

No.	Port Name	Pin Name	I / O	Function	Remarks
1	P94 / DA1	APC / TV	O	Automatic power control / Rx bandpass control. Adjust APC and Rx bandpass through DA (0-5V).	
2	P93 / DA0	TONEO	O	DTMF / 2-Tone / 5-Tone / Beep output / ALARM output (DA generates waveform). Cannot output from speaker.	
3	P92	LCM_SDI	O	LCM data, display module control data pin	
4	P91	LCM_SCK	O	LCM clock, display module control clock pin	
5	P90	SHIFT	O	Clock frequency shift	
6	BYTE	BYTE	BYTE	Ground though resistor	
7	CNVSS	CNVSS	CNVSS	Pull down in operating mode, and pull up when recording.	(PROG9)
8	P87 / XCIN	DC_SW	O	Control transmit transient. H: disable transmit PA. L: enable transmit PA.	
9	P86/XCOUT	NC	O		
10	RESET	RESET	I	Reset when low level input.	(PROG8)
11	XOUT	XOUT	O	Crystal oscillator output pin. Connect to crystal oscillator.	
12	VSS	GND	I	GND	(PROG7)
13	XIN	XIN	I	Crystal oscillator input pin. Connect to crystal oscillator.	
14	VCC	VCC	I	VCC	(PROG1)
15	P85 / NMI	NMI	NC	Connect to VCC through 47K resistor.	
16	P84 / INT2	AF_TCLK	I	AK2346MSK serial clock (TCLK)	
17	P83 / INT1	AUX1	O	Programmable port used for further development.	Used for further development.
18	P82 / INT0	AF_RDF	I	AK2346MSK receive detect (RDF/FD)	
19	P81	DTMF_SD	I	DTMF decode data input.	
20	P80	AUX5	I / O	Programmable port used for further development.	Used for further development.
21	P77	NC			
22	P76 / TA3O	CTC_OUT	O	(PWM)Output CTCSS/CDCSS to VCO for modulation.	
23	P75	GPS_In	I	GPS Input	
24	P74 / TA2O	CTC_PLL	O	(PWM) Output CTCSS/CDCSS to PLL for modulation.	
25	P73	AUX2	I / O	Programmable port used for further development.	Used for further development.
26	P72 / TA1O	EEP/HOLD	O	Determine whether data is valid or not.	

27	P71 / Rx D2 / TB5IN	TONE_IN	I	2-TONE / 5-TONE decode	OPEN DRAIN OUT
28	P70 / Tx D2	NC			OPEN DRAIN OUT
29	P67 / Tx D1	TXD1	O	Serial data output (communicate with computer)	(PROG10)
30	P66 / Rx D1	RXD1	I	Serial data input (communicate with computer)	(PROG4)
31	P65	NC		For recording only. Ground through 47K resistor.	(PROG3)
32	P64	NC		For recording only; monitor output.	(PROG2)
33	P63 / Tx D0	TXD0	I	Serial data input (communicate with option board / patrol module)	Used for further development.
34	P62 / Rx D0	RXD0	O	Serial data input (communicate with option board / patrol module)	Used for further development.
35	P61	EEP_SI	O	AT25 EEPROM data input	I/O AT24 EEPROM DATA input / output
36	P60	EEP_CLK	O	AT25 / AT24 EEPROM clock pin	
37	P57 / RDY	EEP_CS	O	AT25 EEPROM chip select control	
38	P56 / ALE	EEP_SO	O	AT25 EEPROM data output	
39	P55 / HOLD	NC		For recording only. Ground through 47K resistor.	(PROG) 6
40	P54 / HLDA	AF_DIR	O	AK2346 DIR. Control the I/O of data transmission. H: output control word. L: read data.	
41	P53 / BLCK	AF_SCK	O	AK2346 SCLK	
42	P52 / RD	EEP/WP	O	AT25 EEPROM write-protect H: write available. L: write-protect.	
43	P51 / BHE	AF_TDATA	O	AK2346 TDATA. MSK data output pin.	
44	P50 / WR	NC		For recording only. Connect to VCC through 47K resistor.	(PROG) 5
45	P47 / CS3	AF_DIO	I / O	AK2346 DATA I / O (SDAT). Output control word or read data.	
46	P46 / CS2	SBC	O	Control power supply. H: supply power. L: soft power down.	
47	P45 / CS1	SAVE	O	SAVE Battery save control. H: valid. L: battery save.	
48	P44 / CS0	R5C	O	R5C Control power of receiver. L: off. H: valid.	
49	P43 / A19	T5C	O	T5C Control power of transmitter. L: off. H: valid.	
50	P42 / A18	LED_EN	O	Control backlight. H: valid. L: off.	

51	P41 / A17	C5	I / O	Key 5	
52	P40 / A16	C6	I / O	Key 6	
53	P37 / A15	C1	I / O	Key 1	
54	P36 / A14	C2	I / O	Key 2	
55	P35 / A13	C3	I / O	Key 3	
56	P34 / A12	C4	I / O	Key 4	
57	P33 / A11	PWS	I	Power on/off detect. H: soft power down. L: on.	
58	P32 / A10	DTMF_ACK	O	DTMF decode data read clock.	
59	P31 / A9	OPT_SEL	I	Accessory connection detect. H: no. L: yes.	
60	Vcc	VCC	I	VCC	
61	P30 / A8	W_CON	O	Wideband control. H: wideband path open. L: wideband path closed.	
62	Vss	GND	I	GND	
63	P27 / A7	PA_MUTE	O	Control audio power amplifier. H: on. L: off.	
64	P26 / A6	N_CON	O	Narrowband control. H: narrowband path open. L: narrowband path closed.	
65	P25 / A5	LEDR	O	Red light control. H: on. L: off.	
66	P24 / A4	LEDG	O	Green light control. H: on. L: off.	
67	P23 / A3	EN4	I	EN4 Channel Selector Knob 4	Original: EN2
68	P22 / A2	EN3	I	EN3 Channel Selector Knob 3	Original: EN4
69	P21 / A1	EN2	I	EN2 Channel Selector Knob 2	Original: EN3
70	P20 / A0	EN1	I	EN1 Channel Selector Knob 1	Original: EN1
71	P17 / INT5	PUMP_SW	O	Control PLL pump current to improve phase lock speed. H: high current. L: low current.	
72	P16 / INT4	DTMF_EST	I	Rise edge is generated when the decode chip detects DTMF data.	
73	P15 / INT3	MANDOWN	I	Man down detect. H:, L:	
74	P14	AF_MUTE	O	Audio path switch. H: on. L: off.	
75	P13	MOTO_CON		Motor control. H: valid. L: stop.	
76	P12	PLL_UL	I	PLL unlock detect. H: locked. L: unlocked.	
77	P11	PLL_STB	O	PLL chip select output. H: select. L: off.	
78	P10	MIC_MUTE	O	MIC switch. H: off. L: on.	

79	P07 / D7	MXD_C	O	1: Man down is valid. 0: Man down is invalid.	
80	P06 / D6	PLL_DATA	O	PLL data output	
81	P05 / D5	PLL_CLK	O	PLL clock output	
82	P04 / D4	T/R	O	Transmit / receive control. H: Rx. L: Tx.	
83	P03 / D3	APC_SW	O	Control transient. H: APC circuit works. L: APC circuit is disabled.	
84	P02 / D2	PTT	I	PTT detect. H: release. L: press.	
85	P01 / D1	DPP_DA	I / O	Electronic potentiometer CAT5221 data input / output.	
86	P00 / D0	DPP_CLK	O	Electronic potentiometer CAT5221 clock output.	
87	P107 / AN7	NC			Reserved for patrol module. Not used.
88	P106 / AN6	OPTION1	I	Determine option board according to different levels. Used for further development.	
89	P105 / AN5	VOX	I	MIC signal input	
90	P104 / AN4	BATT	I	BATT Battery level detect.	
91	P103 / AN3	BATTSEL	I	Battery identification. Identify battery chemistry.	
92	P102 / AN2	RSSI	I	RSSI detect pin.	
93	P101 / AN1	SQL	I	Squelch level input.	
94	AVSS	GND	I	A/D conversion power grounded input.	
95	P100/AN0	CTC_IN	I	CTCSS signal input.	
96	VREF	VCC	I	A/D conversion reference voltage.	
97	AVCC	VCC	I	A/D conversion power input.	
98	P97	NC			Reserved for patrol module. Not used.
99	P96	LCM_RST	O	LCM reset / TP1	
100	P95	LCM_CD	O	LCM_data / command identification. H: data. L: command.	

TC-780M Parts List 1

TC-780M Parts List 1 (350-390MHz)					
No.	Material No.	Description	Qty.	Ref No.	Print No.
1	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R686	T5H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	C284	T3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R102	T4F
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R139	T4G
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R140	T4G
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R210	B1A
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R240	B3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R244	T3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R252	T3H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R261	T2H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R299	B3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R303	T2H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R402	T3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R409	T3C
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R410	T1F
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R411	T1F
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R439	B4D
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R452	T3B
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R472	T2D
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R481	T1D
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R499	T2C
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R636	B3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R650	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R681	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R682	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R710	B4E
2	3001070000000	Chip resistor 0805 0Ω J 1/8W	1	L434	T5A
	3001070000000	Chip resistor 0805 0Ω J 1/8W	1	R431	T5B
3	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R120	T3E
	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R130	T5G
	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R132	T5G
	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R138	T4G
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	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R641	B5G
	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R665	B1B
4	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R108	T5E

	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R113	T4E
	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R115	T3E
	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R204	B1A
	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R236	B2D
	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R237	B2D
5	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R205	T1G
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R106	T5E
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R133	T5F
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R209	B1A
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R245	T3I
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R296	B2D
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R305	T3I
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R441	B4D
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R454	T3B
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R458	T2B
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R479	T2G
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R624	B2I
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R625	B5H
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R631	B3G
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R645	B3G
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R646	B4H
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R656	B4H
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R659	B2H
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R677	B1C
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R679	B1C
	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R701	B1F
6	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R101	T4F
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R116	T3E
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R123	T3F
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R127	T4G
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R135	T5G
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R144	T4G
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R217	T3I
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R219	T3I
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R229	T2H
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R230	T2H
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R235	B2D
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R246	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R248	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R253	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R290	T5H
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R300	B2D
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R435	B5D

	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R450	T3B
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R482	T3D
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R492	T1E
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R606	B2G
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R618	B3E
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R658	B3I
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R670	B1B
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R671	B1B
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R708	B4E
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R709	B4E
	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R711	B3E
7	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R105	T5E
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R110	T5E
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R241	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R265	T2I
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R273	T2H
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R298	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R306	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R440	B4D
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R442	T3C
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R455	T3C
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R491	T1E
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R497	T2C
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R609	B2G
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R633	B4I
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R675	B2C
	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R676	B2C
8	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R239	B3D
	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R274	T2G
	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R436	B4D
	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R615	B3B
	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R617	B3E
9	3001051060000	Chip resistor 0402 10M J 1/16	1	R716	B3E
10	3001051230000	Chip resistor 0402 12KΩ J 1/1	1	R503	T1E
	3001051230000	Chip resistor 0402 12KΩ J 1/1	1	R668	B1A
	3001051230000	Chip resistor 0402 12KΩ J 1/1	1	R669	B1A
11	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R147	T5G
	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R289	T3H
	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R294	T3H
12	3001051510000	Chip resistor 0402 150Ω J 1/1	1	R107	T4E
	3001051510000	Chip resistor 0402 150Ω J 1/1	1	R459	T2B
	3001051510000	Chip resistor 0402 150Ω J 1/1	1	R494	T2D
13	3001051520000	Chip resistor 0402 1.5KΩ J 1/	1	R406	T4D

	3001051520000	Chip resistor 0402 1.5K Ω J 1/	1	R673	B3C
	3001051520000	Chip resistor 0402 1.5K Ω J 1/	1	R714	B4E
14	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R150	T5H
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R221	T3I
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R243	B3D
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R251	T3H
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R256	T3H
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R258	T3H
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R301	T3G
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R421	T5D
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R712	B4E
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R713	B4E
	3001051530000	Chip resistor 0402 15K Ω J 1/1	1	R715	B3E
15	3001051540020	Chip resistor 0402 150K Ω J 1/	1	R134	T5F
	3001051540020	Chip resistor 0402 150K Ω J 1/	1	R495	T3C
	3001051540020	Chip resistor 0402 150K Ω J 1/	1	R496	T2D
16	3001051540000	Chip resistor 0402 150K Ω F 1/	1	R425	B5D
	3001051540000	Chip resistor 0402 150K Ω F 1/	1	R426	B4D
	3001051540000	Chip resistor 0402 150K Ω F 1/	1	R427	B5D
	3001051540000	Chip resistor 0402 150K Ω F 1/	1	R428	B5D
	3001051540000	Chip resistor 0402 150K Ω F 1/	1	R429	B5D
	3001051540000	Chip resistor 0402 150K Ω F 1/	1	R430	B5D
17	3001051810010	Chip resistor 0402 180 Ω J 1/1	1	R103	T4F
	3001051810010	Chip resistor 0402 180 Ω J 1/1	1	R654	B2A
18	3001051830000	Chip resistor 0402 18K Ω J 1/1	1	R224	T3G
	3001051830000	Chip resistor 0402 18K Ω J 1/1	1	R225	T2G
	3001051830000	Chip resistor 0402 18K Ω J 1/1	1	R242	B3D
	3001051830000	Chip resistor 0402 18K Ω J 1/1	1	R268	T2I
	3001051830000	Chip resistor 0402 18K Ω J 1/1	1	R269	T2I
	3001051830000	Chip resistor 0402 18K Ω J 1/1	1	R295	B2D
19	3001051840000	Chip resistor 0402 180K Ω J 1/	1	R145	T5H
	3001051840000	Chip resistor 0402 180K Ω J 1/	1	R263	T1I
	3001051840000	Chip resistor 0402 180K Ω J 1/	1	R264	T2I
	3001051840000	Chip resistor 0402 180K Ω J 1/	1	R498	T2C
20	3001082010000	Chip resistor 1206 200 Ω J 1/4	1	R678	B1D
	3001082010000	Chip resistor 1206 200 Ω J 1/4	1	R680	B1D
21	3001052200000	Chip resistor 0402 22 Ω J 1/16	1	R407	T4D
22	3001052210000	Chip resistor 0402 220 Ω J 1/1	1	R291	T3I
	3001052210000	Chip resistor 0402 220 Ω J 1/1	1	R657	B2A
23	3001052220000	Chip resistor 0402 2.2K Ω J 1/	1	R434	B5D
	3001052220000	Chip resistor 0402 2.2K Ω J 1/	1	R462	T2B
24	3001052230010	Chip resistor 0402 22K Ω J 1/1	1	R109	T5F
	3001052230010	Chip resistor 0402 22K Ω J 1/1	1	R124	T4F

	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R126	T4G
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R128	T4G
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R131	T3G
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R149	T5H
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R257	T3H
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R259	T3H
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R262	T1I
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R302	T3G
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R474	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R475	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R476	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R477	T2G
	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R672	B2B
25	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R121	T3F
	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R438	B4D
	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R610	B2G
	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R619	B3A
	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R620	B4A
	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R626	B5H
26	3001052790000	Chip resistor 0402 2.7Ω J 1/1	1	R104	T3E
27	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R122	T3G
	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R125	T4G
	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R432	T4C
	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R433	T4C
28	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R143	T5F
	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R293	T3H
	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R297	B2D
	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R484	T2E
29	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R238	B3D
	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R249	T2H
	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R255	B3D
	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R307	T1I
30	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R114	T4E
	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R408	T3D
	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R467	T1D
	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R469	T1D
	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R501	T2D
31	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R118	T3E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R119	T3E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R137	T4G
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R401	T3D
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R417	B4D
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R487	T2E

	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R489	T2E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R490	T2E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R493	T2D
32	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R117	T3E
	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R222	T2G
	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R226	T2E
33	3001063330000	Chip resistor 0603 33KΩ D 1/1	1	R420	T5D
34	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R112	T4E
	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R247	T3H
	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R292	T3H
	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R627	B5H
35	3099080398000	Chip resistor 1206 0.39Ω J 1/	1	R422	B4B
	3099080398000	Chip resistor 1206 0.39Ω J 1/	1	R423	B4B
	3099080398000	Chip resistor 1206 0.39Ω J 1/	1	R424	B3B
36	3001053910000	Chip resistor 0402 390Ω J 1/1	1	R416	B4D
37	3001053930000	Chip resistor 0402 39KΩ J 1/1	1	R148	T5H
38	3001053940000	Chip resistor 0402 390KΩ J 1/	1	R266	T2I
39	3001054320000	Chip resistor 0402 4.3KΩ J 1/	1	R453	T3B
40	3001054700000	Chip resistor 0402 47Ω J 1/16	1	R413	T5D
	3001054700000	Chip resistor 0402 47Ω J 1/16	1	R471	T2C
41	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R419	T5D
42	3001054710000	Chip resistor 0402 470Ω J 1/1	1	R449	T2B
	3001054710000	Chip resistor 0402 470Ω J 1/1	1	R674	B3C
43	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R111	T4E
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R136	T4G
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R206	T1H
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R216	T3I
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R220	T5H
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R232	B3D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R234	B2D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R270	B3D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R473	T1F
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R478	T2F
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R486	T2E
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R602	B1D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R604	B3G
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R612	B2B
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R614	B3C
	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R717	B1F
44	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R218	T3I
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R231	T2H
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R414	T5D
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R415	T5D

	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R488	T2E
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R601	B1D
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R603	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R608	B2G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R611	B2B
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R613	B3C
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R616	B3A
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R630	B2H
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R632	B3I
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R634	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R638	B4H
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R640	B1I
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R647	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R648	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R649	B2G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R651	B3I
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R652	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R660	B2H
45	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R445	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R446	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R447	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R456	T3C
	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R457	T2C
	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R500	T3C
	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R607	B2G
46	3001055110000	Chip resistor 0402 510Ω J 1/1	1	R141	T4F
47	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R250	T3H
	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R460	T2B
48	3001055600000	Chip resistor 0402 56Ω J 1/16	1	R129	T3G
	3001055600000	Chip resistor 0402 56Ω J 1/16	1	R706	B3E
49	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R451	T3B
50	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R271	T2H
	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R272	T2H
51	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R405	T4D
52	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R254	T3G
	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R304	T3H
	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R502	T1E
53	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R223	T2G
	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R228	T2H
54	3001056840000	Chip resistor 0402 680KΩ J 1/	1	R468	T1E
	3001056840000	Chip resistor 0402 680KΩ J 1/	1	R605	B2G
55	3001058220000	Chip resistor 0402 8.2KΩ J 1/	1	R208	B1A
56	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R227	T2G

	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R267	T2I
	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R288	T3H
	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R485	T2E
57	3001059130000	Chip resistor 0402 91KΩ F 1/1	1	R146	T4G
	3001059130000	Chip resistor 0402 91KΩ F 1/1	1	R260	T3H
	3001059130000	Chip resistor 0402 91KΩ F 1/1	1	R461	T2B
58	3002996830000	Trimmer resistor(2*2) 68KΩ(+25%)	1	RP101	T5H
	3002996830000	Trimmer resistor(2*2) 68KΩ(+25%)	1	RP201	T4H
59	3003994730000	Thermistor 0603 47KΩ J 100	1	RT401	T4D
	3003994730000	Thermistor 0603 47KΩ J 100	1	RT402	T2B
60	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN602	B2I
	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN607	B2G
	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN609	B2G
	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN617	B4I
	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN619	B3I
	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN620	B2G
	3005051020000	Resistor array 0402 1K*2 J 1/16	1	RN625	B2H
61	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN601	B3I
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN603	B2H
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN604	B2H
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN606	B2H
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN608	B2G
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN612	B3G
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN616	B4H
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN618	B2H
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN621	B3G
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN622	B4G
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN623	B4H
	3005051020010	Resistor array 0402 1K*4 J 1/16	1	RN624	B2I
62	3101050100030	Chip capacitor 0402 1PF B 50V	1	C478	T3D
63	3101060100010	Chip capacitor 0603 1PF B 50V	1	C444	T5B
	3101060100010	Chip capacitor 0603 1PF B 50V	1	C447	T4B
64	3101051000020	Chip capacitor 0402 10PF J 50V	1	C173	T4H
	3101051000020	Chip capacitor 0402 10PF J 50V	1	C174	T4G
	3101051000020	Chip capacitor 0402 10PF J 50V	1	C517	T3D
65	3101051010030	Chip capacitor 0402 100PF J 50	1	C162	T5G
	3101051010030	Chip capacitor 0402 100PF J 50	1	C163	T5G
	3101051010030	Chip capacitor 0402 100PF J 50	1	C164	T5G
	3101051010030	Chip capacitor 0402 100PF J 50	1	C166	T4G
	3101051010030	Chip capacitor 0402 100PF J 50	1	C427	B5D
	3101051010030	Chip capacitor 0402 100PF J 50	1	C461	T2B
	3101051010030	Chip capacitor 0402 100PF J 50	1	C463	T2B
	3101051010030	Chip capacitor 0402 100PF J 50	1	C473	T2B

	3101051010030	Chip capacitor 0402 100PF J 50	1	C475	T2B
	3101051010030	Chip capacitor 0402 100PF J 50	1	C498	T1E
	3101051010030	Chip capacitor 0402 100PF J 50	1	C639	T4I
	3101051010030	Chip capacitor 0402 100PF J 50	1	C640	T4I
	3101051010030	Chip capacitor 0402 100PF J 50	1	C643	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C646	T5H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C647	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C648	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C649	T4I
	3101051010030	Chip capacitor 0402 100PF J 50	1	C650	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C651	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C652	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C653	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C654	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C655	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C656	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C657	T4I
	3101051010030	Chip capacitor 0402 100PF J 50	1	C658	T4H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C659	T5H
	3101051010030	Chip capacitor 0402 100PF J 50	1	C660	T4I
	3101051010030	Chip capacitor 0402 100PF J 50	1	C661	T4I
	3101051010030	Chip capacitor 0402 100PF J 50	1	C673	B1C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C674	B1C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C675	B1C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C676	B1C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C677	B2D
	3101051010030	Chip capacitor 0402 100PF J 50	1	C678	B2C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C679	B2C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C680	B3C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C681	B2D
	3101051010030	Chip capacitor 0402 100PF J 50	1	C682	B1C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C683	B2C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C684	B2C
	3101051010030	Chip capacitor 0402 100PF J 50	1	C703	B4E
	3101051010030	Chip capacitor 0402 100PF J 50	1	C704	B4E
	3101051010030	Chip capacitor 0402 100PF J 50	1	C706	B3E
	3101051010030	Chip capacitor 0402 100PF J 50	1	C714	B4G
	3101051010030	Chip capacitor 0402 100PF J 50	1	C715	B4G
	3101051010030	Chip capacitor 0402 100PF J 50	1	C716	B4F
66	3101061010010	Chip capacitor 0603 100PF J 50	1	C437	T4B
67	3101051020010	Chip capacitor 0402 1000PF K 5	1	C621	B3B
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C665	B1A
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C686	B1A

	3101051020010	Chip capacitor 0402 1000PF K 5	1	C101	T4F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C108	T3E
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C119	T4F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C155	T3G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C165	T4G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C175	T4G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C176	T4G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C181	T4F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C220	T2G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C222	T2F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C238	B3D
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C401	T3D
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C410	T5D
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C416	T5D
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C492	T1E
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C511	T2E
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C601	B2A
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C602	B2A
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C604	B1E
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C605	B1D
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C606	B1D
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C609	B2G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C611	B3F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C613	B3G
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C615	B2B
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C617	B2B
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C619	B2E
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C624	B1A
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C626	B1A
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C629	B1I
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C632	B4I
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C633	B5H
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C637	B3I
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C664	B4A
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C670	B2B
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C687	B2E
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C710	B3F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C711	B3F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C713	B3F
	3101051020010	Chip capacitor 0402 1000PF K 5	1	C723	B4A
68	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C122	T5E
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C213	T3I
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C258	T2I

	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C280	T5H
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C421	T4C
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C425	T4C
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C489	T1E
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C496	T1F
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C497	T1D
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C500	T1E
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C522	T2D
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C523	T2D
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C527	T2D
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C630	B5G
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C631	B4G
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C638	B3G
	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C667	B2B
69	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C110	T5E
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C124	T5E
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C135	T3E
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C159	T5G
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C161	T5F
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C167	T4G
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C177	T5H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C215	T3I
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C216	T5H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C239	B3D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C240	B3D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C246	T2H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C277	T1H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C282	T3H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C283	T3H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C285	T3H
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C407	T3D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C411	T5D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C417	T5D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C419	T4C
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C456	T3C
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C460	T3B
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C462	T2B
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C465	T3C
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C468	T3C
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C474	T3B
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C494	T2G
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C502	T1E
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C503	T2E

	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C505	T1F
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C506	T1F
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C507	T2F
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C514	T2E
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C519	T2G
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C538	T2D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C608	B1D
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C622	B3E
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C623	B3B
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C668	B1A
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C669	B1A
	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C708	B3E
70	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C219	T2G
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C223	T2E
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C228	B3D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C230	B2D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C231	B2D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C232	B2D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C235	B3D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C248	T3H
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C252	T3H
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C275	T3H
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C286	B2D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C287	B2D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C288	B2D
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C289	T3G
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C290	T5H
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C293	T3G
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C294	T2I
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C295	T1I
	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C635	B4I
71	3101061050060	Chip capacitor 0603 1UF K 10V	1	C422	B4B
	3101061050060	Chip capacitor 0603 1UF K 10V	1	C603	B2E
	3101061050060	Chip capacitor 0603 1UF K 10V	1	C614	B2B
	3101061050060	Chip capacitor 0603 1UF K 10V	1	C618	B3E
72	3101051200020	Chip capacitor 0402 12PF J 50V	1	C453	T4B
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C455	T3B
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C469	T2C
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C471	T2C
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C491	T2D
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C529	T2C
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C531	T3B
	3101051200020	Chip capacitor 0402 12PF J 50V	1	C534	T3C

73	3101061200000	Chip capacitor 0603 12PF J 50V	1	C432	T4C
74	3101061210000	Chip capacitor 0603 120PF J 50	1	C408	T4D
	3101061210000	Chip capacitor 0603 120PF J 50	1	C414	T5D
75	3101051230000	Chip capacitor 0402 0.012UF K	1	C254	T2I
76	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C449	T4B
77	3101051500020	Chip capacitor 0402 15PF J 50V	1	C103	T3E
	3101051500020	Chip capacitor 0402 15PF J 50V	1	C136	T3E
	3101051500020	Chip capacitor 0402 15PF J 50V	1	C138	T3F
	3101051500020	Chip capacitor 0402 15PF J 50V	1	C145	T4G
	3101051500020	Chip capacitor 0402 15PF J 50V	1	C156	T3G
	3101051500020	Chip capacitor 0402 15PF J 50V	1	C627	B3I
78	3101061500010	Chip capacitor 0603 15PF J 50V	1	C433	T5C
79	3101051510000	Chip capacitor 0402 150PF(±5%)	1	C261	T2H
80	3101051530010	Chip capacitor 0402 0.015UF K	1	C180	T5H
	3101051530010	Chip capacitor 0402 0.015UF K	1	C250	T3H
	3101051530010	Chip capacitor 0402 0.015UF K	1	C291	T3G
81	3101061800000	Chip capacitor 0603 18PF J 50V	1	C409	T4D
82	3101051820000	Chip capacitor 0402 1800PF K 5	1	C513	T2E
83	3101051830000	Chip capacitor 0402 0.018UF K	1	C179	T5H
	3101051830000	Chip capacitor 0402 0.018UF K	1	C251	T3H
	3101051830000	Chip capacitor 0402 0.018UF K	1	C292	T3G
84	3101050200010	Chip capacitor 0402 2PF B 50V	1	C133	T3E
	3101050200010	Chip capacitor 0402 2PF B 50V	1	C154	T3G
	3101050200010	Chip capacitor 0402 2PF B 50V	1	C450	T4B
	3101050200010	Chip capacitor 0402 2PF B 50V	1	C479	T3D
	3101050200010	Chip capacitor 0402 2PF B 50V	1	C481	T2D
85	3101060200010	Chip capacitor 0603 2PF B 50V	1	C434	T5B
	3101060200010	Chip capacitor 0603 2PF B 50V	1	C445	T5B
86	3101052200010	Chip capacitor 0402 22PF J 50V	1	C130	T3E
	3101052200010	Chip capacitor 0402 22PF J 50V	1	C263	T1G
	3101052200010	Chip capacitor 0402 22PF J 50V	1	C264	T2G
	3101052200010	Chip capacitor 0402 22PF J 50V	1	C539	T1E
	3101052200010	Chip capacitor 0402 22PF J 50V	1	C540	T1F
87	3101052210010	Chip capacitor 0402 220PF K 50	1	C257	T2I
88	3101052220010	Chip capacitor 0402 2200pF K 5	1	C296	T2I
89	3101052230000	Chip capacitor 0402 0.022UF K	1	C233	B3D
	3101052230000	Chip capacitor 0402 0.022UF K	1	C707	B3E
90	3101052240010	Chip capacitor 0402 0.22UF Z 1	1	C236	B3D
91	3101062250000	Chip capacitor 0603 2.2UF K 10	1	C512	T2E
92	3101052700000	Chip capacitor 0402 27PF J 50V	1	C467	T3C
	3101052700000	Chip capacitor 0402 27PF J 50V	1	C628	B2I
	3101052700000	Chip capacitor 0402 27PF J 50V	1	C636	B3I
93	3101052730000	Chip capacitor 0402 0.027UF K	1	C260	T2H

94	3101050300000	Chip capacitor 0402 3PF B 50V	1	C142	T4G
	3101050300000	Chip capacitor 0402 3PF B 50V	1	C151	T3G
	3101050300000	Chip capacitor 0402 3PF B 50V	1	C472	T3C
	3101050300000	Chip capacitor 0402 3PF B 50V	1	C490	T1D
	3101050300000	Chip capacitor 0402 3PF B 50V	1	C493	T1D
95	3101060300010	Chip capacitor 0603 3PF B 50V	1	C117	T4E
	3101060300010	Chip capacitor 0603 3PF B 50V	1	C436	T4B
	3101060300010	Chip capacitor 0603 3PF B 50V	1	C443	T5B
	3101060300010	Chip capacitor 0603 3PF B 50V	1	C448	T5B
96	3101053300000	Chip capacitor 0402 33PF J 50V	1	C144	T4G
	3101053300000	Chip capacitor 0402 33PF J 50V	1	C226	T2H
	3101053300000	Chip capacitor 0402 33PF J 50V	1	C242	T3H
	3101053300000	Chip capacitor 0402 33PF J 50V	1	C499	T1E
97	3101063300000	Chip capacitor 0603 33PF J 50V	1	C415	T4D
	3101063300000	Chip capacitor 0603 33PF J 50V	1	C428	T5C
98	3101053930000	Chip capacitor 0402 0.039UF K	1	C256	T3I
99	3101050400010	Chip capacitor 0402 4PF B 50V	1	C454	T3B
	3101050400010	Chip capacitor 0402 4PF B 50V	1	C457	T3B
	3101050400010	Chip capacitor 0402 4PF B 50V	1	C470	T3C
100	3101060400010	Chip capacitor 0603 4PF B 50V	1	C116	T4E
	3101060400010	Chip capacitor 0603 4PF B 50V	1	C441	T4B
	3101060400010	Chip capacitor 0603 4PF B 50V	1	C526	T5C
101	3101054700010	Chip capacitor 0402 47PF J 50V	1	C141	T4F
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C146	T4G
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C149	T3G
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C150	T3G
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C157	T4G
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C221	T2G
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C229	B2D
	3101054700010	Chip capacitor 0402 47PF J 50V	1	C234	B3D
102	3101054710010	Chip capacitor 0402 470PF K 50	1	C276	T1G
	3101054710010	Chip capacitor 0402 470PF K 50	1	C109	T5E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C118	T5E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C125	T4E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C127	T5E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C128	T4E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C131	T3E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C132	T3E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C134	T3E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C137	T3G
	3101054710010	Chip capacitor 0402 470PF K 50	1	C139	T4F
	3101054710010	Chip capacitor 0402 470PF K 50	1	C147	T4G
	3101054710010	Chip capacitor 0402 470PF K 50	1	C148	T3G

	3101054710010	Chip capacitor 0402 470PF K 50	1	C152	T4G
	3101054710010	Chip capacitor 0402 470PF K 50	1	C160	T5G
	3101054710010	Chip capacitor 0402 470PF K 50	1	C172	T4H
	3101054710010	Chip capacitor 0402 470PF K 50	1	C185	T3G
	3101054710010	Chip capacitor 0402 470PF K 50	1	C237	B3D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C402	T3D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C404	T4D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C405	T4D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C406	T3C
	3101054710010	Chip capacitor 0402 470PF K 50	1	C412	B4D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C413	T4D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C420	T4C
	3101054710010	Chip capacitor 0402 470PF K 50	1	C423	B4B
	3101054710010	Chip capacitor 0402 470PF K 50	1	C424	T4C
	3101054710010	Chip capacitor 0402 470PF K 50	1	C426	B5D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C438	T4C
	3101054710010	Chip capacitor 0402 470PF K 50	1	C439	B4D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C440	B4D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C483	T2C
	3101054710010	Chip capacitor 0402 470PF K 50	1	C508	T2E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C509	T2E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C518	T3D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C524	T2D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C528	T2D
	3101054710010	Chip capacitor 0402 470PF K 50	1	C625	B1A
	3101054710010	Chip capacitor 0402 470PF K 50	1	C641	B3A
	3101054710010	Chip capacitor 0402 470PF K 50	1	C642	B3A
	3101054710010	Chip capacitor 0402 470PF K 50	1	C644	B3A
	3101054710010	Chip capacitor 0402 470PF K 50	1	C645	B3A
	3101054710010	Chip capacitor 0402 470PF K 50	1	C672	B2C
	3101054710010	Chip capacitor 0402 470PF K 50	1	C701	B1F
	3101054710010	Chip capacitor 0402 470PF K 50	1	C702	B3E
	3101054710010	Chip capacitor 0402 470PF K 50	1	C717	B1F
103	3101064710000	Chip capacitor 0603 470PF K 50	1	C442	T4B
	3101064710000	Chip capacitor 0603 470PF K 50	1	C451	T4B
	3101064710000	Chip capacitor 0603 470PF K 50	1	C501	T1E
104	3101054720000	Chip capacitor 0402 4700PF K 5	1	C214	T3I
	3101054720000	Chip capacitor 0402 4700PF K 5	1	C241	T3H
	3101054720000	Chip capacitor 0402 4700PF K 5	1	C281	T5H
105	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C218	T3H
	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C225	T2H
106	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C111	T4E
	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C120	T5E

	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C123	T4E
107	3101050500010	Chip capacitor 0402 5PF B 50V	1	C143	T4G
	3101050500010	Chip capacitor 0402 5PF B 50V	1	C153	T3G
108	3101060500010	Chip capacitor 0603 5PF B 50V	1	C107	T4E
	3101060500010	Chip capacitor 0603 5PF B 50V	1	C115	T4E
109	3101055600000	Chip capacitor 0402 56PF J 50V	1	C510	T2E
110	3101055610000	Chip capacitor 0402 560PF K 50	1	C227	T2H
111	3101050600010	Chip capacitor 0402 6PF B 50V	1	C113	T5F
	3101050600010	Chip capacitor 0402 6PF B 50V	1	C129	T4E
112	3101056800000	Chip capacitor 0402 68PF J 50V	1	C452	T3B
	3101056800000	Chip capacitor 0402 68PF J 50V	1	C458	T3B
	3101056800000	Chip capacitor 0402 68PF J 50V	1	C532	T3B
	3101056800000	Chip capacitor 0402 68PF J 50V	1	C533	T3C
	3101056800000	Chip capacitor 0402 68PF J 50V	1	C535	T2C
	3101056800000	Chip capacitor 0402 68PF J 50V	1	C536	T3C
113	3101056830000	Chip capacitor 0402 0.068UF K	1	C253	T1I
114	3101060700020	Chip capacitor 0603 7PF B 50V	1	C446	T4B
115	3101067590010	Chip capacitor 0603 7.5PF B 50	1	C105	T3E
116	3101050800000	Chip capacitor 0402 8PF B 50V	1	C403	T4D
	3101050800000	Chip capacitor 0402 8PF B 50V	1	C459	T3B
	3101050800000	Chip capacitor 0402 8PF B 50V	1	C477	T3D
	3101050800000	Chip capacitor 0402 8PF B 50V	1	C537	T2C
117	3101060800010	Chip capacitor 0603 8PF B 50V	1	C106	T4E
118	3101058200000	Chip capacitor 0402 82PF J 50V	1	C504	T2E
119	3101068200000	Chip capacitor 0603 82PF J 50V	1	C102	T3F
120	3101050900000	Chip capacitor 0402 9PF B 50V	1	C480	T3D
	3101050900000	Chip capacitor 0402 9PF B 50V	1	C525	T2D
121	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC104	T3F
	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC114	T5F
122	3104071040010	Tantalum capacitor 0805 0.1UF M 20V	1	C168	T5G
	3104071040010	Tantalum capacitor 0805 0.1UF M 20V	1	C170	T5F
123	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C121	T5F
	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C243	T3H
	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C244	T3H
	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C709	B3F
124	3104081050000	Tantalum capacitor 1206 1UF M 16V T	1	C169	T5F
125	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C171	T4H
	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C495	T2E
126	3104071060040	Tantalum capacitor 0805 10UF M 10V	1	C634	B4I
	3104071060040	Tantalum capacitor 0805 10UF M 10V	1	C671	B3C
127	3104081060080	Tantalum capacitor 1206 10UF M 10V	1	C666	B2B
128	3104071560020	Tantalum capacitor 0805 15UF M 6.3V	1	C245	T1H
129	3104074740010	Tantalum capacitor 0805 0.47UF 16V	1	C530	T2B

130	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C126	T5E
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C158	T5G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C178	T5G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C208	T1H
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C259	T3I
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C274	T3G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C418	B5D
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C607	B2D
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C612	B3F
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C616	B3B
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C620	B3B
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C688	B2E
131	3104084750030	Tantalum capacitor 1206 4.7UF K 16V	1	C610	B2G
132	3104082260040	Tantalum capacitor 1206 22UF M 10V	1	C685	B1B
133	3210106101000	Bobbin inductor 0603 100nH±2% L	1	L102	T3E
	3210106101000	Bobbin inductor 0603 100nH±2% L	1	L110	T5E
134	3210107221000	Bobbin inductor 0805 220nH LQW2	1	L409	T4B
135	3210108330000	Bobbin inductor 1206 33nH LQW31	1	L105	T3E
	3210108330000	Bobbin inductor 1206 33nH LQW31	1	L107	T4F
136	3210209102010	Bobbin inductor 1210 1uH LQH32M	1	L414	B4A
137	3215006100010	Multi-layer chip inductor 0603 10nH LL160	1	L116	T3G
	3215006100010	Multi-layer chip inductor 0603 10nH LL160	1	L118	T4G
	3215006100010	Multi-layer chip inductor 0603 10nH LL160	1	L122	T3G
138	3213306102000	Multi-layer chip inductor 0603 1uH MLF160	1	L432	T1F
139	3213212102000	Multi-layer chip inductor 1008 1uH NLV25T	1	L404	T4D
140	3210305150010	Multi-layer chip inductor 0402 15nH LQG15	1	L426	T2D
141	3210306150000	Multi-layer chip inductor 0603 15nH LQG18	1	L433	T5D
142	3210305180000	Multi-layer chip inductor 0402 18nH LQG15	1	L427	T3D
143	3210306220000	Multi-layer chip inductor 0603 22nH LQG18	1	L120	T3G
	3210306220000	Multi-layer chip inductor 0603 22nH LQG18	1	L424	T3D
144	3210306270000	Multi-layer chip inductor 0603 27nH LQG18	1	L119	T4G
145	3210306339000	Multi-layer chip inductor 0603 3.3nH LQG1	1	L121	T3G
146	3210306330000	Multi-layer chip inductor 0603 33nH LQG18	1	L402	T3D
147	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1	1	L103	T3F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1	1	L104	T4F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1	1	L106	T4F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1	1	L108	T4E
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1	1	L111	T5F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1	1	L112	T4F
148	3210306479000	Multi-layer chip inductor 0603 4.7nH LQG1	1	L406	T4D
149	3210306470000	Multi-layer chip inductor 0603 47nH LQG18	1	L113	T4E
150	3210406471000	Multi-layer chip inductor 0603 470nH LQM1	1	L430	T2D
151	3210306560000	Multi-layer chip inductor 0603 56nH LQG18	1	L115	T3E

152	3210306561010	Multi-layer chip inductor 0603 560nH LQM1	1	L405	T2D
	3210306561010	Multi-layer chip inductor 0603 560nH LQM1	1	L429	T1E
153	3213306561000	Multi-layer chip inductor 0603 0.56uH MLF	1	L124	T4H
154	3214307181000	Inductor 0805 180nH(Q) C20	1	L419	T2B
	3214307181000	Inductor 0805 180nH(Q) C20	1	L425	T2B
155	3214307270010	Inductor 0805 27nH C2012C-	1	L418	T3B
	3214307270010	Inductor 0805 27nH C2012C-	1	L420	T2C
156	3221506601000	Chip ferrite bead 0603 600Ω±	1	L123	T5G
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L128	T5E
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L129	T4F
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L403	T3D
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L423	T1D
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L601	B2D
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L602	B2A
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L604	B4I
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L605	B2G
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L606	B3G
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L607	B1G
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L701	B1F
	3221506601000	Chip ferrite bead 0603 600Ω±	1	L702	B3F
157	3221507221000	Chip ferrite bead 0805 220Ω±	1	L408	T4C
158	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L410	T4B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L413	T5B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L415	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L416	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L417	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L421	T3C
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L422	T2C
	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L431	T3C
159	3231351650000	Air-core inductor E2-0.35*1.6*5TL	1	L411	T4B
	3231351650000	Air-core inductor E2-0.35*1.6*5TL	1	L412	T5B
160	3231351680000	Air-core inductor E2-0.35*1.6*8TR	1	L407	T4C
161	3303020100020	Switching diode MA2S11100L SS-	1	D110	T5E
	3303020100020	Switching diode MA2S11100L SS-	1	D115	T5G
	3303020100020	Switching diode MA2S11100L SS-	1	D205	B3D
	3303020100020	Switching diode MA2S11100L SS-	1	D602	B2D
	3303020100020	Switching diode MA2S11100L SS-	1	D710	B1F
162	3303020100080	Switching diode MA2S07700L 1.7	1	D111	T3F
	3303020100080	Switching diode MA2S07700L 1.7	1	D112	T4G
	3303020100080	Switching diode MA2S07700L 1.7	1	D113	T4G
	3303020100080	Switching diode MA2S07700L 1.7	1	D114	T3F
	3303020100080	Switching diode MA2S07700L 1.7	1	D401	T3D
	3303020100080	Switching diode MA2S07700L 1.7	1	D402	T3D

	3303020100080	Switching diode MA2S07700L 1.7	1	D407	T4B
	3303020100080	Switching diode MA2S07700L 1.7	1	D408	T4B
163	3303020100070	Switching diode MA2Z07700L SOD	1	D403	T4B
164	3303020100060	Switching diode MA3J74200L 30V	1	D204	T2I
165	3303030100010	Switching diode DAN222(TL) SOT	1	D603	B2G
166	3303030300000	Schottky barrier diode RB706F-40	1	D202	B3D
	3303030300000	Schottky barrier diode RB706F-40	1	D203	B2D
	3303030300000	Schottky barrier diode RB706F-40	1	D206	B2D
167	3309030600000	Noise clipping diode RSA6.1EN SO	1	D609	B2D
168	3304010100160	Varactor 1SV278(TH2,F,T	1	D109	T5E
169	3304060300050	Varactor HVC350BTRF-E R	1	D101	T4F
	3304060300050	Varactor HVC350BTRF-E R	1	D102	T3F
	3304060300050	Varactor HVC350BTRF-E R	1	D103	T3F
	3304060300050	Varactor HVC350BTRF-E R	1	D104	T3F
	3304060300050	Varactor HVC350BTRF-E R	1	D105	T4F
	3304060300050	Varactor HVC350BTRF-E R	1	D106	T4F
	3304060300050	Varactor HVC350BTRF-E R	1	D107	T4F
	3304060300050	Varactor HVC350BTRF-E R	1	D108	T4F
	3304060300050	Varactor HVC350BTRF-E R	1	D409	T3B
	3304060300050	Varactor HVC350BTRF-E R	1	D410	T3B
	3304060300050	Varactor HVC350BTRF-E R	1	D411	T3B
	3304060300050	Varactor HVC350BTRF-E R	1	D413	T3C
	3304060300050	Varactor HVC350BTRF-E R	1	D414	T2C
	3304060300050	Varactor HVC350BTRF-E R	1	D419	T3C
170	3399990000080	Zener diode EDZTE616.8B SO	1	D405	B5D
	3399990000080	Zener diode EDZTE616.8B SO	1	D412	T5D
	3399990000080	Zener diode EDZTE616.8B SO	1	D606	B2C
	3399990000080	Zener diode EDZTE616.8B SO	1	D607	B1C
	3399990000080	Zener diode EDZTE616.8B SO	1	D608	B2C
	3399990000080	Zener diode EDZTE616.8B SO	1	D610	B1C
	3399990000080	Zener diode EDZTE616.8B SO	1	D611	B1C
171	3307110100070	LED KPT-160	1	D604	B1A
172	3307110100080	LED KPT-160	1	D605	B1A
173	3399990000260	Diode HSM88ASTL-E RENE	1	D418	T3B
174	3399990000110	Diode ISR154-400 TE25	1	D601	B4B
175	3308250100000	Attenuator diode HSMP-3820-TR1G	1	D417	T2B
176	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q101	T4E
	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q103	T4E
177	3499000000150	Transistor UMC4(NTR) NPN/PN	1	Q102	T5E
178	3403003000060	Transistor 2SC4617TLS NPN R	1	Q104	T4E
	3403003000060	Transistor 2SC4617TLS NPN R	1	Q205	T3H
	3403003000060	Transistor 2SC4617TLS NPN R	1	Q702	B1F
179	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q105	T4E

	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q106	T3E
	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q107	T3F
	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q109	T3G
	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q412	T1E
180	3503010000010	FET 2SJ243-T1-A P-c	1	Q110	T5E
	3503010000010	FET 2SJ243-T1-A P-c	1	Q616	B2C
181	3403007000000	Transistor DTA114EE(TL) PNP	1	Q111	T3G
	3403007000000	Transistor DTA114EE(TL) PNP	1	Q407	B5D
	3403007000000	Transistor DTA114EE(TL) PNP	1	Q413	T2E
	3403007000000	Transistor DTA114EE(TL) PNP	1	Q414	T2E
182	3403008000010	Transistor DTC114EE(TL) NPN	1	Q112	T3F
	3403008000010	Transistor DTC114EE(TL) NPN	1	Q113	T4G
	3403008000010	Transistor DTC114EE(TL) NPN	1	Q405	B5D
	3403008000010	Transistor DTC114EE(TL) NPN	1	Q406	B4D
	3403008000010	Transistor DTC114EE(TL) NPN	1	Q611	B2A
	3403008000010	Transistor DTC114EE(TL) NPN	1	Q612	B2A
183	3403008000030	Transistor DTC114TE NPN Roh	1	Q403	B4D
184	3403008000050	Transistor DTC114YE(TL) NPN	1	Q615	B2B
185	3403008000070	Transistor DTC144EE(TL) NPN	1	Q602	B2D
	3403008000070	Transistor DTC144EE(TL) NPN	1	Q608	B2B
	3403008000070	Transistor DTC144EE(TL) NPN	1	Q609	B3B
	3403008000070	Transistor DTC144EE(TL) NPN	1	Q610	B3I
186	3503020000030	FET 2SK1824-T1-A N-	1	Q203	T3H
	3503020000030	FET 2SK1824-T1-A N-	1	Q204	T1H
	3503020000030	FET 2SK1824-T1-A N-	1	Q408	B4D
	3503020000030	FET 2SK1824-T1-A N-	1	Q604	B2G
	3503020000030	FET 2SK1824-T1-A N-	1	Q605	B2G
187	3401002000150	Transistor 2SC4738F-GR(T5L,	1	Q207	B3D
188	3401001000490	Transistor 2SA1832-GR(TE85L	1	Q208	B3D
189	3406001000090	Transistor 2SC4988FRTR-E NP	1	Q402	T4D
190	3515990000000	FET RQA0002DNSTB-E	1	Q409	T5C
191	3504990000010	FET RD01MUS2-	1	Q404	T5D
192	3418001000010	Transistor AT-41511-TR1G NP	1	Q410	T3B
193	3501020000030	FET 3SK318YB-TL-E-Q	1	Q415	T2D
194	3411002000020	Transistor 2SC5343EG NPN AU	1	Q416	T2B
195	3410001000020	Transistor 2SA1745 PNP SANY	1	Q601	B1D
	3410001000020	Transistor 2SA1745 PNP SANY	1	Q603	B3G
	3410001000020	Transistor 2SA1745 PNP SANY	1	Q606	B2B
	3410001000020	Transistor 2SA1745 PNP SANY	1	Q607	B3C
196	3503040000010	FET UP672T-T1-A N-	1	Q618	B2C
197	3403002000000	Transistor 2SB1132FD5T100R	1	Q701	B1F
198	3604025004350	PLL ADF4111BRUZ 1.2G	1	U101	T5G
199	3605002057290	Operational amplifier TC75W51FU(TE12	1	U201	T2G

	3605002057290	Operational amplifier TC75W51FU(TE12	1	U204	B3D
	3605002057290	Operational amplifier TC75W51FU(TE12	1	U205	T2I
200	3613034001060	Baseband processor AK2346-E2 Two	1	U203	T2H
201	3605008005070	Operational amplifier NJM2904V 2	1	U401	B4D
202	3603002005440	IF processor TA31136FNG(EL	1	U403	T1E
203	3608015000000	Power management IC (voltage regulator) XC6201P	1	U602	B2G
204	3608020005750	Power management IC TK11250	1	U603	B3B
	3608020005750	Power management IC TK11250	1	U604	B3E
205	3610045000200	SCM M3062LFGPGP	1	U605	B3H
206	3609006003050	Reset IC R3111N421A-TR-F	1	U607	B4I
207	3602023005740	Audio amplifier TDA8547TS 2x0	1	U609	B1B
208	3608015005590	Power management IC XC6201T302PR	1	U601	B1D
	3608015005590	Power management IC XC6201T302PR	1	U701	B3F
209	3701016850010	TCXO 16.8MHz 5V	1	X101	T4G
210	3701098340010	Crystal 9.8304MHz DSX530G	1	X601	B2I
211	3702368630020	Crystal 3.6864MHz DSX151G	1	X202	T1G
212	4099000000050	Fuse 046602.5NR 2.5A/	1	F601	B2A
213	4301080000020	Momentary contact switch	1	SW719	B4A
214	5202010100010	Socket XF2M-1015-1A 10pin	1	J701	B3E
215	5202020100040	Connector XF2M-2015-1A 20p	1	J602	B2C
216	5207014200020	FFC/FPC connector SD-52745-	1	J702	B2E
217	3701443940010	Crystal oscillator 44.395MHz±10PP	1	X401	T1E
218	4100780100000	TC-780&TC-780M PCB P	1		
219	3101063900000	Chip capacitor 0603 39PF J 50V	1	C112	T4F
220	3001053030000	Chip resistor 0402 30KΩ F 1/1	1	R437	B4D
221	3612051000020	Memory 24FC512-I/SM 512	1	U606	B1H
222	3802448540000	Crystal filter 44.85MHz±6kHz	1	XF401	T1D
223	3005051030010	Resistor array 0402 10KΩ*4 J 30	1	RN611	B3G
224	3001057530000	Chip resistor 0402 75K J 1/16	1	R233	B2D
225	3001052740000	Chip resistor 0402 270KΩ J 1/	1	R483	T2E
226	3001057540000	Chip resistor 0402 750KΩ J 1/	1	R666	B1B
	3001057540000	Chip resistor 0402 750KΩ J 1/	1	R667	B1B
227	3101053330000	Chip capacitor 0402 0.033UF K	1	C247	T3H
228	3609120000000	Accelerometer MXD2020ML MEMS	1	U608	B4G

TC-780M Parts List 1 (400-440MHz)

No.	Material No.	Description	Qty.	Ref No.	Print No.
1	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	C284	T3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R102	T4F
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R139	T4G
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R140	T4G
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R210	B1A
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R240	B3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R244	T3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R252	T3H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R261	T2H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R299	B3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R303	T2H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R402	T3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R409	T3C
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R439	B4D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R452	T3B
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R472	T2D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R481	T1D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R499	T2C
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R636	B3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R650	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R681	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R682	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R686	T5H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R710	B4E
2	3001070000000	Chip resistor 0805 0Ω J 1/8W (RoHS)	1	L434	T5A
	3001070000000	Chip resistor 0805 0Ω J 1/8W (RoHS)	1	R431	T5B
3	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R120	T3E
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R130	T5G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R132	T5G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R138	T4G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R470	T2E
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R621	B1A
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R641	B5G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R665	B1B
4	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R108	T5E
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R113	T4E
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R115	T3E
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R204	B1A
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R236	B2D

	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R237	B2D
5	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R106	T5E
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R133	T5F
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R205	T1G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R209	B1A
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R245	T3I
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R296	B2D
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R305	T3I
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R441	B4D
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R454	T3B
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R458	T2B
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R479	T2G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R624	B2I
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R625	B5H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R631	B3G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R645	B3G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R646	B4H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R656	B4H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R659	B2H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R677	B1C
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R679	B1C
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R701	B1F
6	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	C511	T2E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R101	T4F
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R116	T3E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R123	T3F
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R127	T4G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R131	T3G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R135	T5G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R144	T4G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R217	T3I
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R219	T3I
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R229	T2H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R230	T2H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R235	B2D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R246	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R248	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R253	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R290	T5H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R300	B2D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R435	B5D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R482	T3D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R492	T1E

	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R601	B1D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R606	B2G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R618	B3E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R658	B3I
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R670	B1B
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R671	B1B
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R708	B4E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R709	B4E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R711	B3E
7	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R105	T5E
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R110	T5E
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R241	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R265	T2I
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R273	T2H
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R298	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R306	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R440	B4D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R442	T3C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R455	T3C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R491	T1E
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R497	T2C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R609	B2G
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R633	B4I
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R675	B2C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R676	B2C
8	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R239	B3D
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R274	T2G
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R436	B4D
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R615	B3B
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R617	B3E
9	3001051060000	Chip resistor 0402 10M J 1/16W (RoHS)	1	R716	B3E
10	3001051230000	Chip resistor 0402 12KΩ J 1/16W (RoHS)	1	R503	T1E
	3001051230000	Chip resistor 0402 12KΩ J 1/16W (RoHS)	1	R668	B1A
	3001051230000	Chip resistor 0402 12KΩ J 1/16W (RoHS)	1	R669	B1A
11	3001051240000	Chip resistor 0402 120KΩ J 1/16W (RoHS)	1	R147	T5G
	3001051240000	Chip resistor 0402 120KΩ J 1/16W (RoHS)	1	R289	T3H
12	3001051510000	Chip resistor 0402 150Ω J 1/16W (RoHS)	1	R107	T4E
	3001051510000	Chip resistor 0402 150Ω J 1/16W (RoHS)	1	R459	T2B
	3001051510000	Chip resistor 0402 150Ω J 1/16W (RoHS)	1	R494	T2D
13	3001051520000	Chip resistor 0402 1.5KΩ J 1/16W (RoHS)	1	R406	T4D
	3001051520000	Chip resistor 0402 1.5KΩ J 1/16W (RoHS)	1	R673	B3C
	3001051520000	Chip resistor 0402 1.5KΩ J 1/16W (RoHS)	1	R714	B4E
14	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R150	T5H

	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R221	T3I
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R243	B3D
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R251	T3H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R256	T3H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R258	T3H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R301	T3G
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R421	T5D
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R712	B4E
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R713	B4E
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R715	B3E
15	3001051540020	Chip resistor 0402 150KΩ J 1/16W (RoHS)	1	R134	T5F
	3001051540020	Chip resistor 0402 150KΩ J 1/16W (RoHS)	1	R495	T3C
	3001051540020	Chip resistor 0402 150KΩ J 1/16W (RoHS)	1	R496	T2D
16	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R425	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R426	B4D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R427	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R428	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R429	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R430	B5D
17	3001051810010	Chip resistor 0402 18Ω J 1/16W (RoHS)	1	R103	T4F
	3001051810010	Chip resistor 0402 18Ω J 1/16W (RoHS)	1	R654	B2A
18	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R224	T3G
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R225	T2G
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R242	B3D
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R268	T2I
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R269	T2I
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R295	B2D
19	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R145	T5H
	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R263	T1I
	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R264	T2I
	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R498	T2C
20	3001052200000	Chip resistor 0402 22Ω J 1/16W (RoHS)	1	R129	T3G
	3001052200000	Chip resistor 0402 22Ω J 1/16W (RoHS)	1	R407	T4D
21	3001052210000	Chip resistor 0402 220Ω J 1/16W (RoHS)	1	R657	B2A
22	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R434	B5D
	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R462	T2B
	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R493	T2D
	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R602	B1D
23	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R109	T5F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R124	T4F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R126	T4G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R128	T4G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R149	T5H

	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R259	T3H
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R262	T1I
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R302	T3G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R474	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R475	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R476	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R477	T2G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R672	B2B
24	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R112	T4E
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R121	T3F
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R438	B4D
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R610	B2G
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R619	B3A
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R620	B4A
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R626	B5H
25	3001052790000	Chip resistor 0402 2.7Ω J 1/16W (RoHS)	1	R104	T3E
26	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R122	T3G
	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R125	T4G
	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R432	T4C
	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R433	T4C
27	3001052720000	Chip resistor 0402 2.7KΩ J 1/16W (RoHS)	1	R297	B2D
28	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R238	B3D
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R249	T2H
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R255	B3D
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R307	T1I
29	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R114	T4E
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R408	T3D
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R467	T1D
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R469	T1D
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R501	T2D
30	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R118	T3E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R119	T3E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R137	T4G
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R401	T3D
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R417	B4D
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R484	T2E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R487	T2E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R489	T2E
31	3001053330010	Chip resistor 0402 33KΩ J 1/16W (RoHS)	1	R117	T3E
	3001053330010	Chip resistor 0402 33KΩ J 1/16W (RoHS)	1	R226	T2E
32	3001063330000	Chip resistor 0603 33KΩ D 1/10W (RoHS)	1	R420	T5D
33	3001053340000	Chip resistor 0402 330KΩ J 1/16W (RoHS)	1	R247	T3H
	3001053340000	Chip resistor 0402 330KΩ J 1/16W (RoHS)	1	R627	B5H

34	3099080398000	Chip resistor 1206 0.39Ω J 1/4W (RoHS)	1	R422	B4B
	3099080398000	Chip resistor 1206 0.39Ω J 1/4W (RoHS)	1	R423	B4B
	3099080398000	Chip resistor 1206 0.39Ω J 1/4W (RoHS)	1	R424	B3B
35	3001053910000	Chip resistor 0402 390Ω J 1/16W (RoHS)	1	R416	B4D
36	3001053930000	Chip resistor 0402 39KΩ J 1/16W (RoHS)	1	R148	T5H
	3001053930000	Chip resistor 0402 39KΩ J 1/16W (RoHS)	1	R257	T3H
37	3001053940000	Chip resistor 0402 390KΩ J 1/16W (RoHS)	1	R266	T2I
38	3001054320000	Chip resistor 0402 4.3KΩ J 1/16W (RoHS)	1	R453	T3B
39	3001054700000	Chip resistor 0402 47Ω J 1/16W (RoHS)	1	R413	T5D
	3001054700000	Chip resistor 0402 47Ω J 1/16W (RoHS)	1	R471	T2C
40	3001064700000	Chip resistor 0603 47Ω J 1/10W (RoHS)	1	R419	T5D
41	3001054710000	Chip resistor 0402 470Ω J 1/16W (RoHS)	1	R449	T2B
	3001054710000	Chip resistor 0402 470Ω J 1/16W (RoHS)	1	R674	B3C
42	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R111	T4E
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R136	T4G
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R206	T1H
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R216	T3I
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R220	T5H
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R232	B3D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R234	B2D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R270	B3D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R473	T1F
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R478	T2F
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R604	B3G
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R612	B2B
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R614	B3C
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R717	B1F
43	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R218	T3I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R231	T2H
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R414	T5D
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R415	T5D
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R488	T2E
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R603	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R608	B2G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R611	B2B
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R613	B3C
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R616	B3A
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R630	B2H
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R632	B3I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R634	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R638	B4H
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R640	B1I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R647	B3G

	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R648	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R649	B2G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R651	B3I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R652	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R660	B2H
44	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R445	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R446	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R447	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R456	T3C
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R457	T2C
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R500	T3C
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R607	B2G
45	3001055130010	Chip resistor 0402 51KΩ J 1/16W (RoHS)	1	R250	T3H
	3001055130010	Chip resistor 0402 51KΩ J 1/16W (RoHS)	1	R460	T2B
46	3001055600000	Chip resistor 0402 56Ω J 1/16W (RoHS)	1	R706	B3E
47	3001055630000	Chip resistor 0402 56KΩ J 1/16W (RoHS)	1	R271	T2H
	3001055630000	Chip resistor 0402 56KΩ J 1/16W (RoHS)	1	R272	T2H
48	3001056810000	Chip resistor 0402 680Ω J 1/16W (RoHS)	1	R405	T4D
49	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R222	T2G
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R254	T3G
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R450	T3B
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R451	T3B
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R502	T1E
50	3001056830000	Chip resistor 0402 68KΩ J 1/16W (RoHS)	1	R223	T2G
	3001056830000	Chip resistor 0402 68KΩ J 1/16W (RoHS)	1	R228	T2H
51	3001056840000	Chip resistor 0402 680KΩ J 1/16W (RoHS)	1	R468	T1E
	3001056840000	Chip resistor 0402 680KΩ J 1/16W (RoHS)	1	R605	B2G
52	3001057530000	Chip resistor 0402 75K J 1/16W (RoHS)	1	R233	B2D
53	3001057540000	Chip resistor 0402 750KΩ J 1/16W (RoHS)	1	R666	B1B
	3001057540000	Chip resistor 0402 750KΩ J 1/16W (RoHS)	1	R667	B1B
54	3001058220000	Chip resistor 0402 8.2KΩ J 1/16W (RoHS)	1	R208	B1A
55	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R227	T2G
	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R267	T2I
	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R288	T3H
	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R485	T2E
56	3001059130000	Chip resistor 0402 91KΩ F 1/16W (RoHS)	1	R146	T4G
	3001059130000	Chip resistor 0402 91KΩ F 1/16W (RoHS)	1	R260	T3H
	3001059130000	Chip resistor 0402 91KΩ F 1/16W (RoHS)	1	R461	T2B
57	3002996830000	Trimmer resistor (2*2) 68KΩ (+25%) MVR22HXBRN683 (RoHS)	1	RP101	T5H
	3002996830000	Trimmer resistor (2*2) 68KΩ (+25%) MVR22HXBRN683 (RoHS)	1	RP201	T4H
58	3003994730000	Thermistor 0603 47KΩ J 100mW NCP18WB473J03RB (RoHS)	1	RT401	T4D
	3003994730000	Thermistor 0603 47KΩ J 100mW NCP18WB473J03RB (RoHS)	1	RT402	T2B
59	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN602	B2I

	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN607	B2G
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN609	B2G
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN617	B4I
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN619	B3I
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN620	B2G
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN625	B2H
60	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN601	B3I
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN603	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN604	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN606	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN608	B2G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN612	B3G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN616	B4H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN618	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN621	B3G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN622	B4G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN623	B4H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN624	B2I
61	3005051030010	resistor array 0402 10KΩ*4 J 300PPM (RoHS)	1	RN611	B3G
62	3101050100030	MONO ceramic capacitor 0402 1pF 0.1pF 10% 50V (RoHS)	1	C478	T3D
63	3101060100010	Chip capacitor 0603 1P B 50V (RoHS)	1	C431	T5C
	3101060100010	Chip capacitor 0603 1P B 50V (RoHS)	1	C444	T5B
	3101060100010	Chip capacitor 0603 1P B 50V (RoHS)	1	C447	T4B
64	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C173	T4H
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C174	T4G
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C474	T3B
65	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C162	T5G
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C163	T5G
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C164	T5G
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C166	T4G
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C427	B5D
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C461	T2B
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C463	T2B
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C464	T3B
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C465	T3C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C473	T2B
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C475	T2B
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C498	T1E
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C639	T4I
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C640	T4I
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C643	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C646	T5H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C647	T4H

	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C648	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C649	T4I
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C650	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C651	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C652	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C653	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C654	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C655	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C656	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C657	T4I
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C658	T4H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C659	T5H
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C660	T4I
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C661	T4I
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C673	B1C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C674	B1C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C675	B1C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C676	B1C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C677	B2D
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C678	B2C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C679	B2C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C680	B3C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C681	B2D
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C682	B1C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C683	B2C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C684	B2C
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C703	B4E
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C704	B4E
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C706	B3E
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C714	B4G
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C715	B4G
	3101051010030	Chip capacitor 0402 100pF J 50VGRM1555C1H101JZ01D (RoHS)	1	C716	B4F
66	3101061010010	Chip capacitor 0603 100P J 50VGRM1885C1H101JA01B (RoHS)	1	C437	T4B
67	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C101	T4F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C108	T3E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C119	T4F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C137	T3G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C155	T3G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C165	T4G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C175	T4G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C176	T4G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C181	T4F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C220	T2G

	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C222	T2F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C238	B3D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C401	T3D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C410	T5D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C416	T5D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C492	T1E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C509	T2E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C601	B2A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C602	B2A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C604	B1E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C605	B1D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C606	B1D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C609	B2G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C611	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C613	B3G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C615	B2B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C617	B2B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C619	B2E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C621	B3B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C624	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C626	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C629	B1I
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C632	B4I
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C633	B5H
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C637	B3I
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C664	B4A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C665	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C670	B2B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C686	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C687	B2E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C710	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C711	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C713	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C723	B4A
68	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C122	T5E
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C213	T3I
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C258	T2I
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C280	T5H
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C421	T4C
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C425	T4C
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C489	T1E
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C496	T1F
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C497	T1D

	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C500	T1E
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C522	T2D
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C523	T2D
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C527	T2D
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C630	B5G
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C631	B4G
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C638	B3G
	3101051030020	Chip capacitor 0402 0.01uF K 25V GRM155R71E103KA01D (RoHS)	1	C667	B2B
69	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C110	T5E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C124	T5E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C135	T3E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C159	T5G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C161	T5F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C167	T4G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C177	T5H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C215	T3I
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C216	T5H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C239	B3D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C240	B3D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C246	T2H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C262	T2H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C277	T1H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C407	T3D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C411	T5D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C417	T5D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C419	T4C
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C456	T3C
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C460	T3B
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C462	T2B
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C468	T3C
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C494	T2G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C502	T1E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C503	T2E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C505	T1F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C506	T1F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C507	T2F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C514	T2E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C519	T2G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C538	T2D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C622	B3E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C623	B3B
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C668	B1A
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C669	B1A

	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C708	B3E
70	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C219	T2G
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C223	T2E
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C228	B3D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C230	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C231	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C232	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C235	B3D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C248	T3H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C252	T3H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C275	T3H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C286	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C287	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C288	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C289	T3G
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C290	T5H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C293	T3G
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C294	T2I
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C295	T1I
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C635	B4I
71	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C422	B4B
	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C603	B2E
	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C614	B2B
	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C618	B3E
72	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C491	T2D
	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C529	T2C
	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C537	T2C
73	3101061210000	Chip capacitor 0603 120P J 50V (RoHS)	1	C408	T4D
	3101061210000	Chip capacitor 0603 120P J 50V (RoHS)	1	C414	T5D
74	3101051230000	Chip capacitor 0402 0.012UF K 25V C1005X7R1E123K(RoHS)	1	C254	T2I
75	3101061590010	Chip capacitor 0603 1.5P B 50V (RoHS)	1	C449	T4B
76	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C103	T3E
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C136	T3E
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C138	T3F
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C145	T4G
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C156	T3G
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C510	T2E
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C627	B3I
77	3101061500010	Chip capacitor 0603 15P J 50V (RoHS)	1	C409	T4D
78	3101051510000	Chip capacitor 0402 150PF (±5%) (50V) GRM36COG151J50 (RoHS)	1	C261	T2H
79	3101051530010	Chip capacitor 0402 0.015UF K 16V C1005X7R1E153K(RoHS)	1	C180	T5H
	3101051530010	Chip capacitor 0402 0.015UF K 16V C1005X7R1E153K(RoHS)	1	C250	T3H
	3101051530010	Chip capacitor 0402 0.015UF K 16V C1005X7R1E153K(RoHS)	1	C291	T3G

80	3101051820000	Chip capacitor 0402 1800P K 50V (RoHS)	1	C241	T3H
	3101051820000	Chip capacitor 0402 1800P K 50V (RoHS)	1	C513	T2E
81	3101051830000	Chip capacitor 0402 0.018UF K 16V (RoHS)	1	C179	T5H
	3101051830000	Chip capacitor 0402 0.018UF K 16V (RoHS)	1	C251	T3H
82	3101050200010	Chip capacitor 0402 2P B 50V (RoHS)	1	C450	T4B
	3101050200010	Chip capacitor 0402 2P B 50V (RoHS)	1	C479	T3D
	3101050200010	Chip capacitor 0402 2P B 50V (RoHS)	1	C481	T2D
83	3101060200010	Chip capacitor 0603 2P B 50V (RoHS)	1	C432	T5C
84	3101052490010	Chip capacitor 0402 2.4P B 50V (RoHS)	1	C144	T4G
85	3199052790000	Chip capacitor 0402 2.7pF B 50V (RoHS)	1	C154	T3G
	3199052790000	Chip capacitor 0402 2.7pF B 50V (RoHS)	1	C457	T3B
86	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C130	T3E
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C263	T1G
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C264	T2G
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C539	T1E
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C540	T1F
87	3101052210010	Chip capacitor 0402 220PF K 50V GRM155R71H221KA01D (RoHS)	1	C257	T2I
88	3101052220010	Chip capacitor 0402 2200pF K 50V GRM155R71H222KA01D (RoHS)	1	C296	T2I
89	3101052230000	Chip capacitor 0402 0.022uF K 16V (RoHS)	1	C233	B3D
	3101052230000	Chip capacitor 0402 0.022uF K 16V (RoHS)	1	C707	B3E
90	3101052240010	Chip capacitor 0402 0.22UF Z 10V (RoHS)	1	C236	B3D
91	3101062250000	Chip capacitor 2.2UF K 10V GRM188R61A225KE34D (RoHS)	1	C512	T2E
92	3101052700000	Chip capacitor 0402 27PF J 50V GRM1555C1H270J (RoHS)	1	C628	B2I
	3101052700000	Chip capacitor 0402 27PF J 50V GRM1555C1H270J (RoHS)	1	C636	B3I
93	3101052730000	Chip capacitor 0402 0.027uF K 16V (RoHS)	1	C260	T2H
94	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C142	T4G
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C151	T3G
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C472	T3C
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C490	T1D
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C493	T1D
95	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C226	T2H
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C242	T3H
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C467	T3C
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C499	T1E
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C517	T3D
96	3101053330000	Chip capacitor 0402 0.033uF K 16V (RoHS)	1	C247	T3H
97	3101053930000	Chip capacitor 0402 0.039uF K 10V (RoHS)	1	C256	T3I
98	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C107	T4E
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C116	T4E
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C441	T4B
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C443	T5B
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C448	T5B
99	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C141	T4F

	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C146	T4G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C149	T3G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C150	T3G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C157	T4G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C221	T2G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C229	B2D
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C234	B3D
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C452	T3B
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C458	T3B
100	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C109	T5E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C118	T5E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C125	T4E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C127	T5E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C128	T4E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C131	T3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C132	T3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C134	T3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C139	T4F
	3101054710010	Chip capacitor 0402 470P K 50V(RoHS)	1	C147	T4G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C148	T3G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C152	T4G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C160	T5G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C172	T4H
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C185	T3G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C237	B3D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C276	T1G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C402	T3D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C404	T4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C405	T4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C406	T3C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C412	B4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C413	T4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C420	T4C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C423	B4B
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C424	T4C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C426	B5D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C438	T4C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C439	B4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C440	B4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C483	T2C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C508	T2E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C518	T3D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C524	T2D

	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C528	T2D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C625	B1A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C641	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C642	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C644	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C645	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C672	B2C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C701	B1F
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C702	B3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C717	B1F
101	3101064710000	Chip capacitor 0603 470PF K 50V (RoHS)	1	C442	T4B
	3101064710000	Chip capacitor 0603 470PF K 50V (RoHS)	1	C501	T1E
102	3101054720000	Chip capacitor 0402 4700P K 50V GRM36X7R472K50PT (RoHS)	1	C214	T3I
	3101054720000	Chip capacitor 0402 4700P K 50V GRM36X7R472K50PT (RoHS)	1	C281	T5H
103	3101054740000	Chip capacitor 0402 0.47uF Z 6.3V (RoHS)	1	C218	T3H
	3101054740000	Chip capacitor 0402 0.47uF Z 6.3V (RoHS)	1	C225	T2H
104	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C111	T4E
	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C120	T5E
	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C123	T4E
105	3101053690000	Chip capacitor 0402 3.6P B 50V (RoHS)	1	C454	T3B
	3101053690000	Chip capacitor 0402 3.6P B 50V (RoHS)	1	C470	T3C
106	3101063690000	Chip capacitor 0603 3.6PF B 50V (RoHS)	1	C117	T4E
	3101063690000	Chip capacitor 0603 3.6PF B 50V (RoHS)	1	C436	T4B
	3101063690000	Chip capacitor 0603 3.6PF B 50V (RoHS)	1	C526	T5C
107	3101064590010	Chip capacitor 0603 0.022uF K 25V (RoHS)	1	C446	T4B
108	3101060500010	Chip capacitor 0603 5P B 50V (RoHS)	1	C115	T4E
	3101060500010	Chip capacitor 0603 5P B 50V (RoHS)	1	C451	T4B
109	3101050500010	Chip capacitor 0402 5P B 50V (RoHS)	1	C143	T4G
	3101050500010	Chip capacitor 0402 5P B 50V (RoHS)	1	C153	T3G
110	3101055610000	Chip capacitor 0402 560P K 50V (RoHS)	1	C227	T2H
	3101055610000	Chip capacitor 0402 560P K 50V (RoHS)	1	R486	T2E
111	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C129	T4E
	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C133	T3E
	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C455	T3B
112	3101056800000	Chip capacitor 0402 68P J 50V (RoHS)	1	C532	T3B
113	3101056830000	Chip capacitor 0402 0.068uF K 6.3V (RoHS)	1	C253	T1I
114	3101060600010	Chip capacitor 0603 6PF B 50V GRM1885C1H6R0B201D (RoHS)	1	C105	T3E
	3101060600010	Chip capacitor 0603 6PF B 50V GRM1885C1H6R0B201D (RoHS)	1	C430	T4C
115	3101060700020	Chip capacitor 0603 7P B 50V (RoHS)	1	C435	T5B
116	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C113	T5F
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C403	T4D
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C453	T4B
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C471	T2C

	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C477	T3D
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C534	T3C
117	3101058200000	Chip capacitor 0402 82PF J 50V GRM1555C1H820J (RoHS)	1	C504	T2E
	3101058200000	Chip capacitor 0402 82PF J 50V GRM1555C1H820J (RoHS)	1	C533	T3C
118	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C459	T3B
	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C469	T2C
	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C480	T3D
	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C525	T2D
	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C531	T3B
119	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm 10P 55V TZY2Z100A001 (RoHS)	1	TC104	T3F
	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm 10P 55V TZY2Z100A001 (RoHS)	1	TC114	T5F
120	3104071040010	Tantalum capacitor 0805 0.1UF M 20V TMCP1D104MTRF (RoHS)	1	C168	T5G
	3104071040010	Tantalum capacitor 0805 0.1UF M 20V TMCP1D104MTRF (RoHS)	1	C170	T5F
121	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C121	T5F
	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C243	T3H
	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C244	T3H
	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C709	B3F
122	3104071060010	Tantalum capacitor 0805 10UF M 6.3V TMCP0J106MTRF (RoHS)	1	C171	T4H
	3104071060010	Tantalum capacitor 0805 10UF M 6.3V TMCP0J106MTRF (RoHS)	1	C495	T2E
123	3104071060040	Tantalum capacitor 0805 10UF M 10V TMCP1A106MTRF (RoHS)	1	C634	B4I
	3104071060040	Tantalum capacitor 0805 10UF M 10V TMCP1A106MTRF (RoHS)	1	C671	B3C
124	3104081060080	Tantalum capacitor 1206 10UF M 10V TMCMA1A106MTRF (RoHS)	1	C666	B2B
125	3104071560020	Tantalum capacitor 0805 15UF M 6.3V TMCP0J156MTRF (RoHS)	1	C245	T1H
126	3104074740010	Tantalum capacitor 0805 0.47UF 16V TMCP1C474MTRF (RoHS)	1	C530	T2B
127	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C126	T5E
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C158	T5G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C178	T5G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C208	T1H
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C259	T3I
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C274	T3G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C418	B5D
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C607	B2D
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C612	B3F
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C616	B3B
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C620	B3B
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C688	B2E
128	3104084750030	Tantalum capacitor 1206 4.7UF K 16V TMCMA1C475KTRF (RoHS)	1	C610	B2G
129	3210106101000	Bobbin inductor 0603 100nH 2% LQW18ANR10G00D Q (smallest) 34 (RoHS)	1	L102	T3E
	3210106101000	Bobbin inductor 0603 100nH 2% LQW18ANR10G00D Q (smallest) 34 (RoHS)	1	L110	T5E
130	3210107221000	Bobbin inductor 0805 220nH LQW2BHNR22J03L Q (smallest) 35 (RoHS)	1	L409	T4B
131	3210108230010	Bobbin inductor 1206 23nH LQW31HN23NJ03L (RoHS)	1	L107	T4F
132	3210108270000	Bobbin inductor 1206 27nH LQW31HN27NJ03L (RoHS)	1	L105	T3E
133	3210209102010	Bobbin inductor 1210 1uH LQH32MN1R0M23L (RoHS)	1	L414	B4A

134	3215006100010	Multi-layer chip inductor 0603 10nH LL1608-FSL10NJ (RoHS)	1	L116	T3G
	3215006100010	Multi-layer chip inductor 0603 10nH LL1608-FSL10NJ (RoHS)	1	L122	T3G
135	3213306102000	Multi-layer chip inductor 0603 1uH MLF1608A1R0K Q (smallest) 35 (RoHS)	1	L432	T1F
136	3213212102000	Multi-layer chip inductor 1008 1uH NLV25T-1R0J-PF Q (smallest) 30 (RoHS)	1	L404	T4D
137	3210305150010	Multi-layer chip inductor 0402 15nH LQG15HN15NJ02Q (smallest) 8 (RoHS)	1	L426	T2D
138	3210306150000	Multi-layer chip inductor 0603 15nH LQG18HN15NJ00D (RoHS)	1	L120	T3G
139	3210305180000	Multi-layer chip inductor 0402 18nH LQG15HS18NJ02 Q (smallest) 8 (RoHS)	1	L427	T3D
140	3210306229000	Multi-layer chip inductor 06032.2nHLQG18HN2N2S00Q(smallest)12 (RoHS)	1	L121	T3G
141	3210306220000	Multi-layer chip inductor 0603 22nHLQG18HN22NJ00Q(smallest) 12 (RoHS)	1	L118	T4G
	3210306220000	Multi-layer chip inductor0603 22nHLQG18HN22NJ00Q(smallest) 12 (RoHS)	1	L424	T3D
142	3210306339000	Multi-layer chip inductor06033.3nHLQG18HN3N3S00Q(smallest) 12 (RoHS)	1	L119	T4G
	3210306339000	Multi-layer chip inductor06033.3nHLQG18HN3N3S00Q(smallest) 12 (RoHS)	1	L406	T4D
143	3210306330000	Multi-layer chip inductor060333nH LQG18HN33NJ00Q (smallest) 12 (RoHS)	1	L402	T3D
144	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3KQ (smallest) 35 (RoHS)	1	L103	T3F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3KQ (smallest) 35 (RoHS)	1	L104	T4F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3KQ (smallest) 35 (RoHS)	1	L106	T4F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3KQ (smallest) 35 (RoHS)	1	L108	T4E
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3KQ (smallest) 35 (RoHS)	1	L111	T5F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3KQ (smallest) 35 (RoHS)	1	L112	T4F
145	3210306270000	Multi-layer chip inductor 0603 27nHLQG18HN27NJ00Q(smallest) 12 (RoHS)	1	L115	T3E
146	3210306470000	Multi-layer chip inductor 0603 47nHLQG18HN47NJ00Q(smallest) 12 (RoHS)	1	L113	T4E
147	3210306561010	Multi-layer chip inductor 0603 560nH LQM18NNR56K (RoHS)	1	L405	T2D
	3210306561010	Multi-layer chip inductor 0603 560nH LQM18NNR56K (RoHS)	1	L429	T1E
	3210306561010	Multi-layer chip inductor 0603 560nH LQM18NNR56K (RoHS)	1	L430	T2D
148	3213306561000	Multi-layer chip inductor 0603 0.56uH MLF1608DR56KQ(smallest) 15(RoHS)	1	L124	T4H
149	3214307181000	Inductor 0805 180nH(Q) C2012C-R18J (RoHS)	1	L419	T2B
	3214307181000	Inductor 0805 180nH(Q) C2012C-R18J (RoHS)	1	L425	T2B
150	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L123	T5G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L128	T5E
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L129	T4F
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L403	T3D
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L423	T1D
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L601	B2D
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L602	B2A
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L604	B4I
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L605	B2G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L606	B3G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L607	B1G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L701	B1F
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L702	B3F
151	3221507221000	Chip ferrite bead 0805 220Ω±25% BLM21PG221SN1 (100MHz) (RoHS)	1	L408	T4C
152	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L410	T4B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L411	T4B

	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L412	T5B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L413	T5B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L415	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L416	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L417	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L421	T3C
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L422	T2C
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L431	T3C
153	3231351680000	Air-core inductor E2-0.35*1.6*8TR (RoHS)	1	L407	T4C
154	3303020100020	Switching diode MA2S11100L SS-Mini 0.95V 80V 100nA UHF (RoHS)	1	D110	T5E
	3303020100020	Switching diode MA2S11100L SS-Mini 0.95V 80V 100nA UHF (RoHS)	1	D115	T5G
	3303020100020	Switching diode MA2S11100L SS-Mini 0.95V 80V 100nA UHF (RoHS)	1	D205	B3D
	3303020100020	Switching diode MA2S11100L SS-Mini 0.95V 80V 100nA UHF (RoHS)	1	D602	B2D
	3303020100020	Switching diode MA2S11100L SS-Mini 0.95V 80V 100nA UHF (RoHS)	1	D710	B1F
155	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D111	T3F
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D112	T4G
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D113	T4G
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D114	T3F
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D401	T3D
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D402	T3D
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D407	T4B
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D408	T4B
156	3303020100070	Switching diode MA2Z07700L SOD-323 35V 100mA (RoHS)	1	D403	T4B
157	3303020100060	Switching diode MA3J74200L 30V 30mA (RoHS)	1	D204	T2I
158	3303030100010	Switching diode DAN222 (TL) SOT-416 (RoHS)	1	D415	T1F
	3303030100010	Switching diode DAN222 (TL) SOT-416 (RoHS)	1	D416	T1F
	3303030100010	Switching diode DAN222 (TL) SOT-416 (RoHS)	1	D603	B2G
159	3303030300000	Schottky Barrier Diode RB706F-40 (T106) SOT-323 (RoHS)	1	D202	B3D
	3303030300000	Schottky Barrier Diode RB706F-40 (T106) SOT-323 (RoHS)	1	D203	B2D
	3303030300000	Schottky Barrier Diode RB706F-40 (T106) SOT-323 (RoHS)	1	D206	B2D
160	3309030600000	Noise clipping diode RSA6.1EN SOT-353 (RoHS)	1	D609	B2D
161	3304010100160	Varactor 1SV278 (TH2,F,T) 30V (RoHS)	1	D109	T5E
162	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D101	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D102	T3F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D103	T3F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D104	T3F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D105	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D106	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D107	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D108	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D409	T3B
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D410	T3B
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D411	T3B

	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D413	T3C
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D414	T2C
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D419	T3C
163	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D405	B5D
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D412	T5D
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D606	B2C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D607	B1C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D608	B2C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D610	B1C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D611	B1C
164	3307110100070	LED KPT-1608SRC super bright red (RoHS)	1	D604	B1A
165	3307110100080	LED KPT-1608SGC super bright green (RoHS)	1	D605	B1A
166	3399990000260	Diode HSM88ASTL-E (RoHS)	1	D418	T3B
167	3399990000110	Diode ISR154-400 TE25 SOD-106 (RoHS)	1	D601	B4B
168	3308250100000	Attenuation diode HSMP-3820-TR1G (RoHS)	1	D417	T2B
169	3499000000140	Transistor 2SK508-K52-T1B-A (RoHS)	1	Q101	T4E
	3499000000140	Transistor 2SK508-K52-T1B-A (RoHS)	1	Q103	T4E
170	3499000000150	Transistor UMC4 (NTR) NPN/PNP (RoHS)	1	Q102	T5E
171	3403003000060	Transistor 2SC4617TLS NPN (RoHS)	1	Q104	T4E
	3403003000060	Transistor 2SC4617TLS NPN (RoHS)	1	Q702	B1F
172	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q105	T4E
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q106	T3E
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q107	T3F
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q109	T3G
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q412	T1E
173	3503010000010	FET 2SJ243-T1-A P-channel (RoHS)	1	Q110	T5E
	3503010000010	FET 2SJ243-T1-A P-channel (RoHS)	1	Q616	B2C
174	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q111	T3G
	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q407	B5D
	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q413	T2E
	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q414	T2E
175	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q112	T3F
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q113	T4G
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q405	B5D
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q406	B4D
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q611	B2A
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q612	B2A
176	3403008000030	Transistor DTC114TE NPN (RoHS)	1	Q403	B4D
177	3403008000050	Transistor DTC114YE (TL) NPN (RoHS)	1	Q615	B2B
178	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q602	B2D
	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q608	B2B
	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q609	B3B
	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q610	B3I

179	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q203	T3H
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q204	T1H
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q408	B4D
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q604	B2G
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q605	B2G
180	3401002000150	Transistor 2SC4738F-GR(T5L,F)NPN (RoHS)	1	Q207	B3D
181	3401001000490	Transistor 2SA1832-GR (TE85L.F) PNP (RoHS)	1	Q208	B3D
182	3406001000090	Transistor 2SC4988FRTR-E NPN (RoHS)	1	Q402	T4D
183	3515990000000	FET RQA0002DNSTB-E Pout 4W Gp 20dB (RoHS)	1	Q409	T5C
184	3504990000010	FET RD01MUS2-T113 Pout>0.8W Gp>14dB (RoHS)	1	Q404	T5D
185	3418001000010	Transistor AT-41511-TR1G NPN (RoHS)	1	Q410	T3B
186	3501020000030	FET 3SK318YB-TL-E-Q N-channel (RoHS)	1	Q415	T2D
187	3411002000020	Transistor 2SC5343EG NPN AUK (RoHS)	1	Q416	T2B
188	3410001000020	Transistor 2SA1745 PNP(RoHS)	1	Q601	B1D
	3410001000020	Transistor 2SA1745 PNP(RoHS)	1	Q603	B3G
	3410001000020	Transistor 2SA1745 PNP(RoHS)	1	Q606	B2B
	3410001000020	Transistor 2SA1745 PNP(RoHS)	1	Q607	B3C
189	3503040000010	FET UPA672T-T1-A N-channel (RoHS)	1	Q618	B2C
190	3403002000000	Transistor 2SB1132FD5T100R PNP (RoHS)	1	Q701	B1F
191	3604025004350	PLL ADF4111BRUZ 1.2GHz AnalogDevices(RoHS)	1	U101	T5G
192	3605002057290	Operational amplifier TC75W51FU (TE12.F) 2 operational (RoHS)	1	U201	T2G
	3605002057290	Operational amplifier TC75W51FU (TE12.F) 2 operational (RoHS)	1	U204	B3D
	3605002057290	Operational amplifier TC75W51FU (TE12.F) 2 operational (RoHS)	1	U205	T2I
193	3613034001060	Baseband processor AK2346-E2 Two-way Radio Audio Processor AKM (RoHS)	1	U203	T2H
194	3605008005070	Operational amplifier NJM2904V 2 operational (RoHS)	1	U401	B4D
195	3603002005440	IF processor TA31136FNG (EL.HZ) 455MHz (RoHS)	1	U403	T1E
196	3608015000000	Power management IC (voltage regulator) XC6201P502PR 5V (RoHS)	1	U602	B2G
197	3608020005750	Power management IC TK11250CM-G 5.0V VOLTAGE REGULATOR (RoHS)	1	U603	B3B
	3608020005750	Power management IC TK11250CM-G 5.0V VOLTAGE REGULATOR (RoHS)	1	U604	B3E
198	3610045000200	SCM M3062LFGPGP 16-BIT (RoHS)	1	U605	B3H
199	3609006003050	Reset IC R3111N421A-TR-F RICOH (RoHS)	1	U607	B4I
200	3609120000000	Acceleration sensor MXD2020ML MEMSIC(RoHS)	1	U608	B4G
201	3602023005740	Audio amplifier TDA8547TS 2x0.7W BTL audio amplifier with output Channel selectoring 2x0.7W (RoHS)	1	U609	B1B
202	3608015005590	Power management IC XC6201T302PR 3V (RoHS)	1	U601	B1D
	3608015005590	Power management IC XC6201T302PR 3V (RoHS)	1	U701	B3F
203	3701016850010	TCXO16.8MHz 5V DSA535SA (5x3.2) SMT KDS (RoHS)	1	X101	T4G
204	3701098340010	Crystal 9.8304MHz DSX530GA (5x3.2) SMT KDS (RoHS)	1	X601	B2I
205	3702368630020	Crystal 3.6864MHz DSX151GA(11.8x5.5) chip KDS(RoHS)	1	X202	T1G
206	4099000000050	Fuse 046602.5NR 2.5A/32V LITTELFUSE (RoHS)	1	F601	B2A

207	4301080000020	Momentary contact switch TC-700(SKRTLAE010) ALPS(RoHS)	1	SW719	B4A
208	5202010100010	Socket XF2M-1015-1A 10pin (RoHS)	1	J701	B3E
209	5202020100040	connector XF2M-2015-1A 20pin (RoHS)	1	J602	B2C
210	5207014200020	FFC/FPC connector SD-52745-1497 14pin pitch0.5mm 00(RoHS)	1	J702	B2E
211	3701443940010	Crystal oscillator 44.395MHz±10PPm NX3225DA chip NDK(RoHS)	1	X401	T1E
212	4100780100000	TC-780&TC-780M Main board PCB1.2T / 6L/ 4P Immersion Gold 00(RoHS)	1		
213	3001053030000	Chip resistor 0402 30KΩ F 1/16W (RoHS)	1	R437	B4D
214	3612051000020	Memory 24FC512-I/SM 512K 8-lead SOIC MICROCHIP(RoHS)	1	U606	B1H
215	3802448540000	Crystal filter 44.85MHz±6kHz DSF753SBF chip KDS(RoHS)	1	XF401	T1D
216	3801045530000	Ceramic filter 455KHz±4.5KHz CFWKA455KGFA-R0 (RoHS)	1	Z403	T1F
217	3001051220000	Chip resistor 0402 1.2KΩ J 1/16W (RoHS)	1	R143	T5F
218	3101053900000	Chip capacitor 0402 39P J 50V (RoHS)	1	C535	T2C
	3101053900000	Chip capacitor 0402 39P J 50V (RoHS)	1	C536	T3C
219	3101061000000	Chip capacitor 0603 10P C 50V (RoHS)	1	C106	T4E
220	3101061300000	Chip capacitor 0603 13P J 50V (RoHS)	1	C429	T5C
221	3101063300000	Chip capacitor 0603 33PF J 50V (RoHS)	1	C112	T4F
222	3104081550020	Tantalum capacitor 1206 1.5UF M 16V F931C155MA (RoHS)	1	C169	T5F
223	3214307180000	Inductor 0805 18nH C2012C-18NJ (RoHS)	1	L420	T2C
224	3214307220010	Inductor 0805 22nH C2012C-22NG (RoHS)	1	L418	T3B
225	3001055620000	Chip resistor 0402 5.6KΩ J 1/16W (RoHS)	1	R304	T3H
226	3101061200000	Chip capacitor 0603 12P J 50V (RoHS)	1	C520	T5C
227	3101064700000	Chip capacitor 0603 47PF J 50V (RoHS)	1	C102	T3F
228	3212106689000	Multi-layer chip inductor 0603 6.8nH HK16086N8JQ(smallest) 10 (RoHS)	1	L433	T5D
229	3101062490000	Chip capacitor 0603 2.4P B 50V (RoHS)	1	C445	T5B
230	3101063900000	Chip capacitor 0603 39PF J 50V (RoHS)	1	C428	T5C
231	3101063000010	Chip capacitor 0603 30P J 50V (RoHS)	1	C415	T4D
232	3001052740000	Chip resistor 0402 270KΩ J 1/16W (RoHS)	1	R483	T2E
233	3001053920010	Chip resistor 0402 3.9KΩ J 1/16W (RoHS)	1	R490	T2E
234	3001055610000	Chip resistor 0402 560Ω J 1/16W (RoHS)	1	R141	T4F
235	3101102260010	Chip capacitor1206 22uF +80%/-20% 10V C3216Y5V1A226Z (RoHS)	1	C685	B1B
236	3001084790000	Chip resistor 1206 4.7Ω J 1/4W (RoHS)	1	R680	B1D

TC-780M Parts List 1 (440-470MHz)

No.	Material No.	Description	Qty.	Ref No.	Print No.
1	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	C284	T3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R102	T4F
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R139	T4G
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R140	T4G
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R210	B1A
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R240	B3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R244	T3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R252	T3H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R261	T2H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R299	B3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R303	T2H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R402	T3D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R409	T3C
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R439	B4D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R452	T3B
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R472	T2D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R481	T1D
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R499	T2C
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R636	B3I
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R650	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R681	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R682	B1H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R686	T5H
	3001050000000	Chip resistor 0402 0Ω J 1/16W (RoHS)	1	R710	B4E
2	3001070000000	Chip resistor 0805 0Ω J 1/8W (RoHS)	1	L434	T5A
	3001070000000	Chip resistor 0805 0Ω J 1/8W (RoHS)	1	R431	T5B
3	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R120	T3E
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R130	T5G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R132	T5G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R138	T4G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R470	T2E
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R621	B1A
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R641	B5G
	3001051000000	Chip resistor 0402 10Ω J 1/16W (RoHS)	1	R665	B1B
4	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R108	T5E
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R113	T4E
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R115	T3E
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R204	B1A
	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R236	B2D

	3001051010000	Chip resistor 0402 100Ω J 1/16W (RoHS)	1	R237	B2D
5	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R106	T5E
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R133	T5F
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R205	T1G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R209	B1A
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R245	T3I
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R296	B2D
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R305	T3I
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R441	B4D
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R454	T3B
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R458	T2B
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R479	T2G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R624	B2I
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R625	B5H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R631	B3G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R645	B3G
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R646	B4H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R656	B4H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R659	B2H
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R677	B1C
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R679	B1C
	3001051020010	Chip resistor 0402 1KΩ J 1/16W (RoHS)	1	R701	B1F
6	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R101	T4F
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R116	T3E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R123	T3F
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R127	T4G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R131	T3G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R135	T5G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R144	T4G
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R217	T3I
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R219	T3I
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R229	T2H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R230	T2H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R235	B2D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R246	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R248	T3H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R290	T5H
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R300	B2D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R435	B5D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R482	T3D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R492	T1E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R601	B1D
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R606	B2G

	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R618	B3E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R658	B3I
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R670	B1B
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R671	B1B
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R708	B4E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R709	B4E
	3001051030000	Chip resistor 0402 10KΩ J 1/16W (RoHS)	1	R711	B3E
7	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R105	T5E
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R110	T5E
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R241	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R265	T2I
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R273	T2H
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R298	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R306	B3D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R440	B4D
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R442	T3C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R455	T3C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R491	T1E
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R497	T2C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R609	B2G
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R633	B4I
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R675	B2C
	3001051040010	Chip resistor 0402 100KΩ J 1/16W (RoHS)	1	R676	B2C
8	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R239	B3D
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R274	T2G
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R436	B4D
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R615	B3B
	3001051050020	Chip resistor 0402 1MΩ J 1/16W (RoHS)	1	R617	B3E
9	3001051060000	Chip resistor 0402 10M J 1/16W (RoHS)	1	R716	B3E
10	3001051230000	Chip resistor 0402 12KΩ J 1/16W (RoHS)	1	R503	T1E
	3001051230000	Chip resistor 0402 12KΩ J 1/16W (RoHS)	1	R668	B1A
	3001051230000	Chip resistor 0402 12KΩ J 1/16W (RoHS)	1	R669	B1A
11	3001051240000	Chip resistor 0402 120KΩ J 1/16W (RoHS)	1	R147	T5G
	3001051240000	Chip resistor 0402 120KΩ J 1/16W (RoHS)	1	R289	T3H
12	3001051510000	Chip resistor 0402 150Ω J 1/16W (RoHS)	1	R107	T4E
	3001051510000	Chip resistor 0402 150Ω J 1/16W (RoHS)	1	R459	T2B
	3001051510000	Chip resistor 0402 150Ω J 1/16W (RoHS)	1	R494	T2D
13	3001051520000	Chip resistor 0402 1.5KΩ J 1/16W (RoHS)	1	R406	T4D
	3001051520000	Chip resistor 0402 1.5KΩ J 1/16W (RoHS)	1	R673	B3C
	3001051520000	Chip resistor 0402 1.5KΩ J 1/16W (RoHS)	1	R714	B4E
14	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R150	T5H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R221	T3I
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R243	B3D

	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R251	T3H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R256	T3H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R258	T3H
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R301	T3G
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R421	T5D
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R712	B4E
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R713	B4E
	3001051530000	Chip resistor 0402 15KΩ J 1/16W (RoHS)	1	R715	B3E
15	3001051540020	Chip resistor 0402 150KΩ J 1/16W (RoHS)	1	R134	T5F
	3001051540020	Chip resistor 0402 150KΩ J 1/16W (RoHS)	1	R495	T3C
	3001051540020	Chip resistor 0402 150KΩ J 1/16W (RoHS)	1	R496	T2D
16	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R425	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R426	B4D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R427	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R428	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R429	B5D
	3001051540000	Chip resistor 0402 150KΩ F 1/16W (RoHS)	1	R430	B5D
17	3001051810010	Chip resistor 0402 18Ω J 1/16W (RoHS)	1	R103	T4F
	3001051810010	Chip resistor 0402 18Ω J 1/16W (RoHS)	1	R654	B2A
18	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R224	T3G
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R225	T2G
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R242	B3D
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R268	T2I
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R269	T2I
	3001051830000	Chip resistor 0402 18KΩ J 1/16W (RoHS)	1	R295	B2D
19	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R145	T5H
	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R263	T1I
	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R264	T2I
	3001051840000	Chip resistor 0402 180KΩ J 1/16W (RoHS)	1	R498	T2C
20	3001052200000	Chip resistor 0402 22Ω J 1/16W (RoHS)	1	R129	T3G
	3001052200000	Chip resistor 0402 22Ω J 1/16W (RoHS)	1	R407	T4D
21	3001052210000	Chip resistor 0402 220Ω J 1/16W (RoHS)	1	R657	B2A
22	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R434	B5D
	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R462	T2B
	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R493	T2D
	3001052220000	Chip resistor 0402 2.2KΩ J 1/16W (RoHS)	1	R602	B1D
23	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R109	T5F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R124	T4F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R126	T4G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R128	T4G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R149	T5H
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R259	T3H
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R262	T1I

	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R302	T3G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R474	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R475	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R476	T2F
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R477	T2G
	3001052230010	Chip resistor 0402 22KΩ J 1/16W (RoHS)	1	R672	B2B
24	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R112	T4E
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R121	T3F
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R438	B4D
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R483	T2E
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R610	B2G
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R619	B3A
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R620	B4A
	3001052240000	Chip resistor 0402 220KΩ J 1/16W (RoHS)	1	R626	B5H
25	3001052790000	Chip resistor 0402 2.7Ω J 1/16W (RoHS)	1	R104	T3E
26	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R122	T3G
	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R125	T4G
	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R432	T4C
	3001052710010	Chip resistor 0402 270Ω J 1/16W (RoHS)	1	R433	T4C
27	3001052720000	Chip resistor 0402 2.7KΩ J 1/16W (RoHS)	1	R297	B2D
28	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R238	B3D
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R249	T2H
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R253	T3H
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R255	B3D
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R257	T3H
	3001052730000	Chip resistor 0402 27KΩ J 1/16W (RoHS)	1	R307	T1I
29	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R114	T4E
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R408	T3D
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R467	T1D
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R469	T1D
	3001053310010	Chip resistor 0402 330Ω J 1/16W (RoHS)	1	R501	T2D
30	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R118	T3E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R119	T3E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R137	T4G
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R401	T3D
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R417	B4D
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R487	T2E
	3001053320000	Chip resistor 0402 3.3KΩ J 1/16W (RoHS)	1	R489	T2E
31	3001053330010	Chip resistor 0402 33KΩ J 1/16W (RoHS)	1	R117	T3E
	3001053330010	Chip resistor 0402 33KΩ J 1/16W (RoHS)	1	R226	T2E
32	3001063330000	Chip resistor 0603 33KΩ D 1/10W (RoHS)	1	R420	T5D
33	3001053340000	Chip resistor 0402 330KΩ J 1/16W (RoHS)	1	R247	T3H
	3001053340000	Chip resistor 0402 330KΩ J 1/16W (RoHS)	1	R627	B5H

34	3099080398000	Chip resistor 1206 0.39Ω J 1/4W (RoHS)	1	R422	B4B
	3099080398000	Chip resistor 1206 0.39Ω J 1/4W (RoHS)	1	R423	B4B
	3099080398000	Chip resistor 1206 0.39Ω J 1/4W (RoHS)	1	R424	B3B
35	3001053910000	Chip resistor 0402 390Ω J 1/16W (RoHS)	1	R416	B4D
36	3001053930000	Chip resistor 0402 39KΩ J 1/16W (RoHS)	1	R148	T5H
37	3001053940000	Chip resistor 0402 390KΩ J 1/16W (RoHS)	1	R266	T2I
38	3001054320000	Chip resistor 0402 4.3KΩ J 1/16W (RoHS)	1	R453	T3B
39	3001054700000	Chip resistor 0402 47Ω J 1/16W (RoHS)	1	R413	T5D
	3001054700000	Chip resistor 0402 47Ω J 1/16W (RoHS)	1	R471	T2C
40	3001064700000	Chip resistor 0603 47Ω J 1/10W (RoHS)	1	R419	T5D
41	3001054710000	Chip resistor 0402 470Ω J 1/16W (RoHS)	1	R449	T2B
	3001054710000	Chip resistor 0402 470Ω J 1/16W (RoHS)	1	R674	B3C
42	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R111	T4E
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R136	T4G
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R216	T3I
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R220	T5H
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R232	B3D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R234	B2D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R270	B3D
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R473	T1F
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R478	T2F
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R484	T2E
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R604	B3G
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R612	B2B
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R614	B3C
	3001054720000	Chip resistor 0402 4.7KΩ J 1/16W (RoHS)	1	R717	B1F
43	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R218	T3I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R231	T2H
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R414	T5D
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R415	T5D
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R488	T2E
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R603	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R608	B2G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R611	B2B
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R613	B3C
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R616	B3A
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R630	B2H
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R632	B3I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R634	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R638	B4H
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R640	B1I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R647	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R648	B3G

	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R649	B2G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R651	B3I
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R652	B3G
	3001054730000	Chip resistor 0402 47KΩ J 1/16W (RoHS)	1	R660	B2H
44	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R445	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R446	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R447	T3B
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R456	T3C
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R457	T2C
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R500	T3C
	3001054740000	Chip resistor 0402 470KΩ J 1/16W (RoHS)	1	R607	B2G
45	3001055130010	Chip resistor 0402 51KΩ J 1/16W (RoHS)	1	R250	T3H
	3001055130010	Chip resistor 0402 51KΩ J 1/16W (RoHS)	1	R460	T2B
46	3001055600000	Chip resistor 0402 56Ω J 1/16W (RoHS)	1	R706	B3E
47	3001055630000	Chip resistor 0402 56KΩ J 1/16W (RoHS)	1	R271	T2H
	3001055630000	Chip resistor 0402 56KΩ J 1/16W (RoHS)	1	R272	T2H
48	3001056810000	Chip resistor 0402 680Ω J 1/16W (RoHS)	1	R405	T4D
49	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R222	T2G
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R254	T3G
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R450	T3B
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R451	T3B
	3001056820000	Chip resistor 0402 6.8KΩ J 1/16W (RoHS)	1	R502	T1E
50	3001056830000	Chip resistor 0402 68KΩ J 1/16W (RoHS)	1	R223	T2G
	3001056830000	Chip resistor 0402 68KΩ J 1/16W (RoHS)	1	R228	T2H
51	3001056840000	Chip resistor 0402 680KΩ J 1/16W (RoHS)	1	R468	T1E
	3001056840000	Chip resistor 0402 680KΩ J 1/16W (RoHS)	1	R605	B2G
52	3001057530000	Chip resistor 0402 75K J 1/16W (RoHS)	1	R233	B2D
53	3001057540000	Chip resistor 0402 750KΩ J 1/16W (RoHS)	1	R666	B1B
	3001057540000	Chip resistor 0402 750KΩ J 1/16W (RoHS)	1	R667	B1B
54	3001058220000	Chip resistor 0402 8.2KΩ J 1/16W (RoHS)	1	R206	T1H
	3001058220000	Chip resistor 0402 8.2KΩ J 1/16W (RoHS)	1	R208	B1A
55	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R227	T2G
	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R267	T2I
	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R288	T3H
	3001058230000	Chip resistor 0402 82KΩ J 1/16W (RoHS)	1	R485	T2E
56	3001059130000	Chip resistor 0402 91KΩ F 1/16W (RoHS)	1	R146	T4G
	3001059130000	Chip resistor 0402 91KΩ F 1/16W (RoHS)	1	R260	T3H
	3001059130000	Chip resistor 0402 91KΩ F 1/16W (RoHS)	1	R461	T2B
57	3002996830000	Trimmer resistor (2*2) 68KΩ (+25%) MVR22HXBRN683 (RoHS)	1	RP101	T5H
	3002996830000	Trimmer resistor (2*2) 68KΩ (+25%) MVR22HXBRN683 (RoHS)	1	RP201	T4H
58	3003994730000	Thermistor 0603 47KΩ J 100mW NCP18WB473J03RB (RoHS)	1	RT401	T4D
	3003994730000	Thermistor 0603 47KΩ J 100mW NCP18WB473J03RB (RoHS)	1	RT402	T2B
59	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN602	B2I

	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN607	B2G
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN609	B2G
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN617	B4I
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN619	B3I
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN620	B2G
	3005051020000	resistor array 0402 1K*2 J 1/16W*2 RAC102D 102J (RoHS)	1	RN625	B2H
60	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN601	B3I
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN603	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN604	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN606	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN608	B2G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN612	B3G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN616	B4H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN618	B2H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN621	B3G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN622	B4G
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN623	B4H
	3005051020010	resistor array0402 1K*4 J 1/16W*4 YC124-JR-071K (RoHS)	1	RN624	B2I
61	3005054730010	Resistor array 0402 47K*4 J 1/16W*4 YC124-JR-0747K (RoHS)	1	RN611	B3G
62	3101050100030	MONO ceramic capacitor 0402 1pF 0.1pF 10% 50V (RoHS)	1	C478	T3D
63	3101060100010	Chip capacitor 0603 1P B 50V (RoHS)	1	C431	T5C
	3101060100010	Chip capacitor 0603 1P B 50V (RoHS)	1	C444	T5B
	3101060100010	Chip capacitor 0603 1P B 50V (RoHS)	1	C447	T4B
64	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C113	T5F
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C173	T4H
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C174	T4G
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C453	T4B
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C459	T3B
	3101051000020	Chip capacitor 0402 10pF J 50V GRM1555C1H100JZ01D (RoHS)	1	C477	T3D
65	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C162	T5G
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C163	T5G
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C164	T5G
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C166	T4G
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C427	B5D
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C461	T2B
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C463	T2B
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C464	T3B
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C465	T3C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C473	T2B
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C475	T2B
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C498	T1E
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C639	T4I
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C640	T4I

	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C643	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C646	T5H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C647	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C648	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C649	T4I
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C650	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C651	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C652	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C653	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C654	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C655	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C656	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C657	T4I
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C658	T4H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C659	T5H
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C660	T4I
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C661	T4I
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C673	B1C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C674	B1C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C675	B1C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C676	B1C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C677	B2D
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C678	B2C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C679	B2C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C680	B3C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C681	B2D
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C682	B1C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C683	B2C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C684	B2C
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C703	B4E
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C704	B4E
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C706	B3E
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C714	B4G
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C715	B4G
	3101051010030	Chip capacitor 0402 100pF J 50V GRM1555C1H101JZ01D (RoHS)	1	C716	B4F
66	3101061010010	Chip capacitor 0603 100P J 50V GRM1885C1H101JA01B (RoHS)	1	C437	T4B
67	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C101	T4F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C108	T3E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C119	T4F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C137	T3G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C155	T3G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C165	T4G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C175	T4G

	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C176	T4G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C181	T4F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C220	T2G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C222	T2F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C238	B3D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C410	T5D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C416	T5D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C492	T1E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C509	T2E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C601	B2A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C602	B2A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C604	B1E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C605	B1D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C606	B1D
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C609	B2G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C611	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C613	B3G
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C615	B2B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C617	B2B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C619	B2E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C621	B3B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C624	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C626	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C629	B1I
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C632	B4I
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C633	B5H
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C637	B3I
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C664	B4A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C665	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C670	B2B
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C686	B1A
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C687	B2E
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C710	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C711	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C713	B3F
	3101051020010	Chip capacitor 0402 1000P K 50V GRM36X7R102K50PT (RoHS)	1	C723	B4A
68	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C122	T5E
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C213	T3I
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C258	T2I
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C280	T5H
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C421	T4C
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C425	T4C
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C489	T1E

	3101051030020	Chip capacitor 0402 0.01uF K 25V RM155R71E103KA01D(RoHS)	1	C496	T1F
	3101051030020	Chip capacitor 0402 0.01uF K 25V RM155R71E103KA01D (RoHS)	1	C497	T1D
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C500	T1E
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C522	T2D
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C523	T2D
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C527	T2D
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C630	B5G
	3101051030020	Chip capacitor 0402 0.01uF K 25V RM155R71E103KA01D (RoHS)	1	C631	B4G
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D(RoHS)	1	C638	B3G
	3101051030020	Chip capacitor 0402 0.01uF K 25VGRM155R71E103KA01D RoHS)	1	C667	B2B
69	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C110	T5E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C124	T5E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C135	T3E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C159	T5G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C161	T5F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C167	T4G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C177	T5H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C215	T3I
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C216	T5H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C239	B3D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C240	B3D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C246	T2H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C262	T2H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C277	T1H
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C407	T3D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C411	T5D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C417	T5D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D RoHS)	1	C419	T4C
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C456	T3C
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C460	T3B
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C462	T2B
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C468	T3C
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C494	T2G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C502	T1E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C503	T2E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C505	T1F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C506	T1F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C507	T2F
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C514	T2E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C519	T2G
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C538	T2D
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C622	B3E
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C623	B3B

	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C668	B1A
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C669	B1A
	3101051040060	Chip capacitor 0402 0.1uF K 16V GRM155R71C104KA88D (RoHS)	1	C708	B3E
70	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C219	T2G
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C223	T2E
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C228	B3D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C230	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C231	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C232	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C235	B3D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C248	T3H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C252	T3H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C275	T3H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C286	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C287	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C288	B2D
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C289	T3G
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C290	T5H
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C293	T3G
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C294	T2I
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C295	T1I
	3101051050000	Chip capacitor 0402 1uF K 6.3V GRM155R60J105K6.3PT (RoHS)	1	C635	B4I
71	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C422	B4B
	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C603	B2E
	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C614	B2B
	3101061050060	Chip capacitor 0603 1uF K 10V (RoHS)	1	C618	B3E
72	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C474	T3B
	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C491	T2D
	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C510	T2E
	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C529	T2C
	3101051200020	Chip capacitor 0402 12P J 50V (RoHS)	1	C537	T2C
73	3101061210000	Chip capacitor 0603 120P J 50V (RoHS)	1	C408	T4D
74	3101051230000	Chip capacitor 0402 0.012uF K 25V C1005X7R1E123K (RoHS)	1	C254	T2I
75	3101061590010	Chip capacitor 0603 1.5P B 50V (RoHS)	1	C449	T4B
76	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C103	T3E
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C136	T3E
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C138	T3F
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C145	T4G
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C156	T3G
	3101051500020	Chip capacitor 0402 15P J 50V GRM36COG150J50PT (RoHS)	1	C627	B3I
77	3101061500010	Chip capacitor 0603 15P J 50V (RoHS)	1	C409	T4D
78	3101051510000	Chip capacitor 0402 150PF (±5%) (50V) GRM36COG151J50(RoHS)	1	C261	T2H
79	3101051530010	Chip capacitor 0402 0.015uF K 16V C1005X7R1E153K (RoHS)	1	C180	T5H

	3101051530010	Chip capacitor 0402 0.015UF K 16V C1005X7R1E153K (RoHS)	1	C250	T3H
	3101051530010	Chip capacitor 0402 0.015UF K 16V C1005X7R1E153K (RoHS)	1	C291	T3G
80	3101051820000	Chip capacitor 0402 1800P K 50V (RoHS)	1	C513	T2E
81	3101051830000	Chip capacitor 0402 0.018UF K 16V (RoHS)	1	C179	T5H
	3101051830000	Chip capacitor 0402 0.018UF K 16V (RoHS)	1	C251	T3H
82	3101050200010	Chip capacitor 0402 2P B 50V (RoHS)	1	C450	T4B
	3101050200010	Chip capacitor 0402 2P B 50V (RoHS)	1	C479	T3D
	3101050200010	Chip capacitor 0402 2P B 50V (RoHS)	1	C481	T2D
83	3101060200010	Chip capacitor 0603 2P B 50V (RoHS)	1	C432	T5C
	3101060200010	Chip capacitor 0603 2P B 50V (RoHS)	1	C445	T5B
84	3101052490010	Chip capacitor 0402 2.4P B 50V (RoHS)	1	C144	T4G
85	3199052790000	Chip capacitor 0402 2.7pF B 50V (RoHS)	1	C154	T3G
	3199052790000	Chip capacitor 0402 2.7pF B 50V (RoHS)	1	C457	T3B
	3199052790000	Chip capacitor 0402 2.7pF B 50V (RoHS)	1	C472	T3C
86	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C130	T3E
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C263	T1G
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C264	T2G
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C539	T1E
	3101052200010	Chip capacitor 0402 22P J 50V GRM36 C0G 220J 50PT (RoHS)	1	C540	T1F
87	3101052210010	Chip capacitor 0402 220PF K50VGRM155R71H221KA0D (RoHS)	1	C257	T2I
88	3101052220010	Chip capacitor 0402 220pFK50VGRM155R71H222KA0D(RoHS)	1	C296	T2I
89	3101052230000	Chip capacitor 0402 0.022uF K 16V (RoHS)	1	C233	B3D
	3101052230000	Chip capacitor 0402 0.022uF K 16V (RoHS)	1	C707	B3E
90	3101052240010	Chip capacitor 0402 0.22UF Z 10V (RoHS)	1	C236	B3D
91	3101062250000	Chip capacitor 2.2UF K 10V GRM188R61A225KE34D (RoHS)	1	C512	T2E
92	3101052700000	Chip capacitor 0402 27PF J 50V GRM1555C1H270J (RoHS)	1	C628	B2I
	3101052700000	Chip capacitor 0402 27PF J 50V GRM1555C1H270J (RoHS)	1	C636	B3I
93	3101052730000	Chip capacitor 0402 0.027uF K 16V (RoHS)	1	C260	T2H
94	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C142	T4G
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C151	T3G
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C490	T1D
	3101050300000	Chip capacitor 0402 3P B 50V (RoHS)	1	C493	T1D
95	3101062700010	Chip capacitor 0603 27P J 50V (RoHS)	1	C112	T4F
96	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C226	T2H
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C242	T3H
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C467	T3C
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C499	T1E
	3101053300000	Chip capacitor 0402 33pF J 50V (RoHS)	1	C517	T3D
97	3101053330000	Chip capacitor 0402 0.033uF K 16V (RoHS)	1	C247	T3H
98	3101063900000	Chip capacitor 0603 39PF J 50V (RoHS)	1	C428	T5C
99	3101053930000	Chip capacitor 0402 0.039uF K 10V (RoHS)	1	C256	T3I
100	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C105	T3E
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C116	T4E

	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C441	T4B
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C443	T5B
	3101060400010	Chip capacitor 0603 4P B 50V (RoHS)	1	C448	T5B
101	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C141	T4F
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C146	T4G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C149	T3G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C150	T3G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C157	T4G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C221	T2G
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C229	B2D
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C234	B3D
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C452	T3B
	3101054700010	Chip capacitor 0402 47P J 50V GRM36COG470J50PT (RoHS)	1	C536	T3C
102	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C109	T5E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C118	T5E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C125	T4E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C127	T5E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C128	T4E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C131	T3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C132	T3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C134	T3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C139	T4F
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C147	T4G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C148	T3G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C152	T4G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C160	T5G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C172	T4H
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C185	T3G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C237	B3D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C276	T1G
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C402	T3D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C404	T4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C405	T4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C406	T3C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C412	B4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C413	T4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C420	T4C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C423	B4B
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C424	T4C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C426	B5D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C438	T4C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C439	B4D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C440	B4D

	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C483	T2C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C508	T2E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C518	T3D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C524	T2D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C528	T2D
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C625	B1A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C641	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C642	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C644	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C645	B3A
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C672	B2C
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C701	B1F
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C702	B3E
	3101054710010	Chip capacitor 0402 470P K 50V (RoHS)	1	C717	B1F
103	3101064710000	Chip capacitor 0603 470PF K 50V (RoHS)	1	C442	T4B
	3101064710000	Chip capacitor 0603 470PF K 50V (RoHS)	1	C501	T1E
104	3101054720000	Chip capacitor 0402 4700P K 50VGRM36X7R472K50PT (RoHS)	1	C214	T3I
	3101054720000	Chip capacitor 0402 4700P K 50VGRM36X7R472K50PT (RoHS)	1	C241	T3H
	3101054720000	Chip capacitor 0402 4700P K 50VGRM36X7R472K50PT (RoHS)	1	C281	T5H
105	3101054740000	Chip capacitor 0402 0.47uF Z 6.3V (RoHS)	1	C218	T3H
	3101054740000	Chip capacitor 0402 0.47uF Z 6.3V (RoHS)	1	C225	T2H
106	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C111	T4E
	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C120	T5E
	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C123	T4E
	3101060590010	Chip capacitor 0603 0.5P B 50V (RoHS)	1	C476	T4A
107	3101053690000	Chip capacitor 0402 3.6P B 50V (RoHS)	1	C454	T3B
	3101053690000	Chip capacitor 0402 3.6P B 50V (RoHS)	1	C470	T3C
108	3101063690000	Chip capacitor 0603 3.6PF B 50V (RoHS)	1	C526	T5C
109	3101064590010	Chip capacitor 0603 0.022uF K 25V (RoHS)	1	C446	T4B
110	3101060500010	Chip capacitor 0603 5P B 50V (RoHS)	1	C106	T4E
111	3101050500010	Chip capacitor 0402 5P B 50V (RoHS)	1	C143	T4G
	3101050500010	Chip capacitor 0402 5P B 50V (RoHS)	1	C153	T3G
112	3101055610000	Chip capacitor 0402 560P K 50V (RoHS)	1	C227	T2H
	3101055610000	Chip capacitor 0402 560P K 50V (RoHS)	1	R486	T2E
113	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C129	T4E
	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C133	T3E
	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C455	T3B
	3101050600010	Chip capacitor 0402 6PF B 50V GRM1555C1H6R0BZ01D (RoHS)	1	C531	T3B
114	3101056800000	Chip capacitor 0402 68P J 50V (RoHS)	1	C458	T3B
	3101056800000	Chip capacitor 0402 68P J 50V (RoHS)	1	C532	T3B
115	3101056830000	Chip capacitor 0402 0.068uF K 6.3V (RoHS)	1	C253	T1I
116	3101060600010	Chip capacitor 0603 6PF B 50V GRM1885C1H6R0BZ01D (RoHS)	1	C430	T4C
117	3101065690000	Chip capacitor 0603 5.6P C 50V (RoHS)	1	C435	T5B

118	3101060800010	Chip capacitor 0603 8P B 50V (RoHS)	1	C451	T4B
119	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C401	T3D
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C403	T4D
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C471	T2C
	3101050800000	Chip capacitor 0402 8P B 51V (RoHS)	1	C534	T3C
120	3101058200000	Chip capacitor 0402 82PF J 50V GRM1555C1H820J (RoHS)	1	C504	T2E
	3101058200000	Chip capacitor 0402 82PF J 50V GRM1555C1H820J (RoHS)	1	C533	T3C
121	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C480	T3D
	3101050900000	Chip capacitor 0402 9PF B 50V (RoHS)	1	C525	T2D
122	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm 10P 55V TZY2Z100A001 RoHS)	1	TC104	T3F
	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm 10P 55V TZY2Z100A001 RoHS)	1	TC114	T5F
123	3104071040010	Tantalum capacitor 0805 0.1UF M 20V TMCP1D104MTRF (RoHS)	1	C168	T5G
	3104071040010	Tantalum capacitor 0805 0.1UF M 20V TMCP1D104MTRF (RoHS)	1	C170	T5F
124	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C121	T5F
	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C243	T3H
	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C244	T3H
	3104071050010	Tantalum capacitor 0805 1UF M 16V TMCP1C105MTRF (RoHS)	1	C709	B3F
125	3104071060010	Tantalum capacitor 0805 10UF M 6.3V TMCP0J106MTRF (RoHS)	1	C171	T4H
	3104071060010	Tantalum capacitor 0805 10UF M 6.3V TMCP0J106MTRF (RoHS)	1	C495	T2E
126	3104071060040	Tantalum capacitor 0805 10UF M 10V TMCP1A106MTRF (RoHS)	1	C634	B4I
	3104071060040	Tantalum capacitor 0805 10UF M 10V TMCP1A106MTRF (RoHS)	1	C671	B3C
127	3104081060080	Tantalum capacitor 1206 10UF M 10V TMCMA1A106MTRF (RoHS)	1	C666	B2B
128	3104071560020	Tantalum capacitor 0805 15UF M 6.3V TMCP0J156MTRF (RoHS)	1	C245	T1H
129	3104074740010	Tantalum capacitor 0805 0.47UF 16V TMCP1C474MTRF (RoHS)	1	C530	T2B
130	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C126	T5E
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C158	T5G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C178	T5G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C208	T1H
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C259	T3I
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C274	T3G
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C418	B5D
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C607	B2D
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C612	B3F
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C616	B3B
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C620	B3B
	3104074750030	Tantalum capacitor 0805 4.7UF M 10V TMCP1A475MTRF (RoHS)	1	C688	B2E
131	3104084750030	Tantalum capacitor 1206 4.7UF K 16V TMCMA1C475KTRF (RoHS)	1	C610	B2G
132	3210106101000	Bobbin inductor 0603 100nH LQW18ANR10G00DQ (smallest) 34 (RoHS)	1	L102	T3E
	3210106101000	Bobbin inductor 0603 100nH LQW18ANR10G00DQ (smallest) 34 (RoHS)	1	L110	T5E
133	3210107221000	Bobbin inductor 0805 220nH LQW2BHNR22J03L Q (smallest) 35 (RoHS)	1	L409	T4B

134	3210108230010	Bobbin inductor 1206 23nH LQW31HN23NJ03L (RoHS)	1	L107	T4F
135	3210108270000	Bobbin inductor 1206 27nH LQW31HN27NJ03L (RoHS)	1	L105	T3E
136	3210209102010	Bobbin inductor 1210 1uH LQH32MN1R0M23L (RoHS)	1	L414	B4A
137	3215006100010	Multi-layer chip inductor 0603 10nH LL1608-FSL10NJ (RoHS)	1	L116	T3G
	3215006100010	Multi-layer chip inductor 0603 10nH LL1608-FSL10NJ (RoHS)	1	L122	T3G
138	3213306102000	Multi-layer chip inductor 0603 1uH MLF1608A1R0K Q (smallest) 35 (RoHS)	1	L432	T1F
139	3213212102000	Multi-layer chip inductor 1008 1uH NLV25T-1R0J-PF Q (smallest) 30 (RoHS)	1	L404	T4D
140	3210305150010	Multi-layer chip inductor 0402 15nH LQG15HN15NJ02 Q (smallest) 8 (RoHS)	1	L426	T2D
141	3210306150000	Multi-layer chip inductor 0603 15nH LQG18HN15NJ00 D (RoHS)	1	L120	T3G
142	3210305180000	Multi-layer chip inductor 0402 18nH LQG15HS18NJ02 Q (smallest) 8 (RoHS)	1	L427	T3D
143	3210306229000	Multi-layer chip inductor 0603 2.2nH LQG18HN2N2S00Q (smallest) 12 (RoHS)	1	L121	T3G
144	3210306220000	Multi-layer chip inductor 0603 22nH LQG18HN22NJ00 Q (smallest) 12 (RoHS)	1	L118	T4G
	3210306220000	Multi-layer chip inductor 0603 22nH LQG18HN22NJ00 Q (smallest) 12 (RoHS)	1	L424	T3D
145	3210306339000	Multi-layer chip inductor 0603 3.3nH LQG18HN3N3S00Q (smallest) 12 (RoHS)	1	L119	T4G
	3210306339000	Multi-layer chip inductor 0603 3.3nH LQG18HN3N3S00 Q (smallest) 12 (RoHS)	1	L406	T4D
146	3210306330000	Multi-layer chip inductor 0603 33nH LQG18HN33NJ00 Q (smallest) 12 (RoHS)	1	L402	T3D
147	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3K Q (smallest) 35 (RoHS)	1	L103	T3F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3K Q (smallest) 35 (RoHS)	1	L104	T4F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3K Q (smallest) 35 (RoHS)	1	L106	T4F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3K Q (smallest) 35 (RoHS)	1	L108	T4E
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3K Q (smallest) 35 (RoHS)	1	L111	T5F
	3213306332000	Multi-layer chip inductor 0603 3.3uH MLF1608A3R3K Q (smallest) 35 (RoHS)	1	L112	T4F
148	3001057520000	Chip resistor 0402 7.5KΩ J 1/16W (RoHS)	1	C511	T2E
	3001057520000	Chip resistor 0402 7.5KΩ J 1/16W (RoHS)	1	R304	T3H
149	3210306270000	Multi-layer chip inductor 0603 27nH LQG18HN27NJ00 Q (smallest) 12 (RoHS)	1	L115	T3E

150	3210306470000	Multi-layer chip inductor 0603 47nH LQG18HN47NJ00 Q (smallest) 12 (RoHS)	1	L113	T4E
151	3212106689000	Multi-layer chip inductor 0603 6.8nH HK16086N8J Q (smallest) 10 (RoHS)	1	L433	T5D
152	3210306561010	Multi-layer chip inductor 0603 560nH LQM18NNR56K (RoHS)	1	L405	T2D
	3210306561010	Multi-layer chip inductor 0603 560nH LQM18NNR56K (RoHS)	1	L429	T1E
	3210306561010	Multi-layer chip inductor 0603 560nH LQM18NNR56K (RoHS)	1	L430	T2D
153	3213306561000	Multi-layer chip inductor 0603 0.56uH MLF1608DR56KQ (smallest) 15 (RoHS)	1	L124	T4H
154	3214307181000	Inductor 0805 180nH(Q) C2012C-R18J (RoHS)	1	L419	T2B
	3214307181000	Inductor 0805 180nH(Q) C2012C-R18J (RoHS)	1	L425	T2B
155	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L123	T5G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L128	T5E
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L129	T4F
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L403	T3D
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L423	T1D
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L601	B2D
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L602	B2A
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L604	B4I
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L605	B2G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L606	B3G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L607	B1G
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L701	B1F
	3221506601000	Chip ferrite bead 0603 600Ω±25% BLM18AG601SN1 (100MHz) (RoHS)	1	L702	B3F
156	3221507221000	Chip ferrite bead 0805 220Ω±25% BLM21PG221SN1 (100MHz) (RoHS)	1	L408	T4C
157	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L410	T4B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L411	T4B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L412	T5B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L413	T5B

	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L415	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L416	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L417	T3B
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L421	T3C
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L422	T2C
	3231351640000	Air-core inductor E2-0.35*1.6*4TL (RoHS)	1	L431	T3C
158	3231351680000	Air-core inductor E2-0.35*1.6*8TR (RoHS)	1	L407	T4C
159	3303020100020	Switching diode MA2S11100LSS-Mini 0.95V80V100nAUHF (RoHS)	1	D110	T5E
	3303020100020	Switching diode MA2S11100LSS-Mini0.95V80V100nAUHF (RoHS)	1	D115	T5G
	3303020100020	Switching diode MA2S11100LSS-Mini 0.95V80V100nAUHF (RoHS)	1	D205	B3D
	3303020100020	Switching diode MA2S11100LSS-Mini0.95V80V100nA UHF (RoHS)	1	D602	B2D
	3303020100020	Switching diode MA2S11100LSS-Mini0.95V80V100nA UHF (RoHS)	1	D710	B1F
160	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D111	T3F
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D112	T4G
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D113	T4G
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D114	T3F
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D401	T3D
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D402	T3D
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D407	T4B
	3303020100080	Switching diode MA2S07700L 1.7*0.8mm (RoHS)	1	D408	T4B
161	3303020100070	Switching diode MA2Z07700L SOD-323 35V 100mA (RoHS)	1	D403	T4B
162	3303020100060	Switching diode MA3J74200L 30V 30mA (RoHS)	1	D204	T2I
163	3303030100010	Switching diode DAN222 (TL) SOT-416 (RoHS)	1	D415	T1F
	3303030100010	Switching diode DAN222 (TL) SOT-416 (RoHS)	1	D416	T1F
	3303030100010	Switching diode DAN222 (TL) SOT-416 (RoHS)	1	D603	B2G
164	3303030300000	Schottky Barrier Diode RB706F-40 (T106) SOT-323 (RoHS)	1	D202	B3D
	3303030300000	Schottky Barrier Diode RB706F-40 (T106) SOT-323 (RoHS)	1	D203	B2D
	3303030300000	Schottky Barrier Diode RB706F-40 (T106) SOT-323 (RoHS)	1	D206	B2D
165	3309030600000	Noise clipping diode RSA6.1EN SOT-353 (RoHS)	1	D609	B2D
166	3304010100160	Varactor 1SV278 (TH2,F,T) 30V (RoHS)	1	D109	T5E
167	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D101	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D102	T3F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D103	T3F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D104	T3F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D105	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D106	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D107	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D108	T4F
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D409	T3B
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D410	T3B
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D411	T3B
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D413	T3C
	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D414	T2C

	3304060300050	Varactor HVC350BTRF-E (RoHS)	1	D419	T3C
168	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D405	B5D
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D412	T5D
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D606	B2C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D607	B1C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D608	B2C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D610	B1C
	3399990000080	Zener diode EDZTE616.8B SOD-523 (RoHS)	1	D611	B1C
169	3307110100070	LED KPT-1608SRC super bright red (RoHS)	1	D604	B1A
170	3307110100080	LED KPT-1608SGC super bright green (RoHS)	1	D605	B1A
171	3399990000260	Diode HSM88ASTL-E (RoHS)	1	D418	T3B
172	3399990000110	Diode ISR154-400 TE25 SOD-106 (RoHS)	1	D601	B4B
173	3308250100000	Attenuation diode HSMP-3820-TR1G (RoHS)	1	D417	T2B
174	3499000000140	Transistor 2SK508-K52-T1B-A (RoHS)	1	Q101	T4E
	3499000000140	Transistor 2SK508-K52-T1B-A (RoHS)	1	Q103	T4E
175	3499000000150	Transistor UMC4 (NTR) NPN/PNP (RoHS)	1	Q102	T5E
176	3403003000060	Transistor 2SC4617TLS NPN (RoHS)	1	Q104	T4E
	3403003000060	Transistor 2SC4617TLS NPN (RoHS)	1	Q702	B1F
177	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q105	T4E
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q106	T3E
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q107	T3F
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q109	T3G
	3401002000990	Transistor 2SC5108-Y (TE85L.F) NPN (RoHS)	1	Q412	T1E
178	3503010000010	FET 2SJ243-T1-A P-channel (RoHS)	1	Q110	T5E
	3503010000010	FET 2SJ243-T1-A P-channel (RoHS)	1	Q616	B2C
179	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q111	T3G
	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q407	B5D
	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q413	T2E
	3403007000000	Transistor DTA114EE (TL) PNP (RoHS)	1	Q414	T2E
180	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q112	T3F
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q113	T4G
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q405	B5D
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q406	B4D
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q611	B2A
	3403008000010	Transistor DTC114EE (TL) NPN (RoHS)	1	Q612	B2A
181	3403008000030	Transistor DTC114TE NPN (RoHS)	1	Q403	B4D
182	3403008000050	Transistor DTC114YE (TL) NPN (RoHS)	1	Q615	B2B
183	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q602	B2D
	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q608	B2B
	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q609	B3B
	3403008000070	Transistor DTC144EE (TL) NPN (RoHS)	1	Q610	B3I
184	3503020000030	FET 2SK1824-T1-A N--channel (RoHS)	1	Q203	T3H
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q204	T1H

	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q408	B4D
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q604	B2G
	3503020000030	FET 2SK1824-T1-A N—channel (RoHS)	1	Q605	B2G
185	3401002000150	Transistor 2SC4738F-GR (T5L,F) NPN (RoHS)	1	Q207	B3D
186	3401001000490	Transistor 2SA1832-GR (TE85L.F) PNP (RoHS)	1	Q208	B3D
187	3406001000090	Transistor 2SC4988FRTR-E NPN (RoHS)	1	Q402	T4D
188	3515990000000	FET RQA0002DNSTB-E Pout 4W Gp 20dB (RoHS)	1	Q409	T5C
189	3504990000010	FET RD01MUS2-T113 Pout>0.8W Gp>14dB (RoHS)	1	Q404	T5D
190	3418001000010	Transistor AT-41511-TR1G NPN (RoHS)	1	Q410	T3B
191	3501020000030	FET 3SK318YB-TL-E-Q N-channel (RoHS)	1	Q415	T2D
192	3411002000020	Transistor 2SC5343EG NPN AUK (RoHS)	1	Q416	T2B
193	3410001000020	Transistor 2SA1745 PNP (RoHS)	1	Q601	B1D
	3410001000020	Transistor 2SA1745 PNP (RoHS)	1	Q603	B3G
	3410001000020	Transistor 2SA1745 PNP (RoHS)	1	Q606	B2B
	3410001000020	Transistor 2SA1745 PNP (RoHS)	1	Q607	B3C
194	3503040000010	FET UPA672T-T1-A N-channel (RoHS)	1	Q618	B2C
195	3403002000000	Transistor 2SB1132FD5T100R PNP (RoHS)	1	Q701	B1F
196	3604025004350	PLL ADF4111BRUZ 1.2GHz AnalogDevices(RoHS)	1	U101	T5G
197	3605002057290	Operational amplifier TC75W51FU (TE12.F)2operational (RoHS)	1	U201	T2G
	3605002057290	Operational amplifier TC75W51FU (TE12.F)2operational (RoHS)	1	U204	B3D
	3605002057290	Operational amplifier TC75W51FU (TE12.F)2operational (RoHS)	1	U205	T2I
198	3613034001060	Baseband processor AK2346-E2 Two-way Radio Audio Processor AKM (RoHS)	1	U203	T2H
199	3605008005070	Operational amplifier NJM2904V 2 operational (RoHS)	1	U401	B4D
200	3603002005440	IF processor TA31136FNG (EL.HZ) 455MHz (RoHS)	1	U403	T1E
201	3608015000000	Power management IC (voltage regulator) XC6201P502PR5V (RoHS)	1	U602	B2G
202	3608020005750	Power management IC TK11250CM-G5.0 VVOLTAGE REGULATOR (RoHS)	1	U603	B3B
	3608020005750	Power management ICTK11250CM-G5.0VVOLTAGE REGULATOR (RoHS)	1	U604	B3E
203	3610045000200	SCM M3062LFGPGP 16-BIT (RoHS)	1	U605	B3H
204	3609006003050	Reset IC R3111N421A-TR-F RICOH (RoHS)	1	U607	B4I
205	3609120000000	Acceleration sensor MXD2020ML MEMSIC(RoHS)	1	U608	B4G
206	3602023005740	Audio amplifier TDA8547TS 2x0.7W BTL audio amplifier with output Channel selectoring 2x0.7W (RoHS)	1	U609	B1B
207	3608015005590	Power management IC XC6201T302PR 3V (RoHS)	1	U601	B1D
	3608015005590	Power management IC XC6201T302PR 3V (RoHS)	1	U701	B3F
208	3701016850010	TCXO 16.8MHz 5V DSA535SA (5x3.2) SMT KDS (RoHS)	1	X101	T4G
209	3701098340010	Crystal 9.8304MHz DSX530GA (5x3.2) SMT KDS (RoHS)	1	X601	B2I
210	3702368630020	Crystal 3.6864MHz DSX151GA(11.8x5.5) chip KDS(RoHS)	1	X202	T1G
211	4099000000050	Fuse 046602.5NR 2.5A/32V LITTELFUSE (RoHS)	1	F601	B2A
212	4301080000020	Momentary contact switch TC-700(SKRTLAE010) ALPS(RoHS)	1	SW719	B4A

213	5202010100010	Socket XF2M-1015-1A 10pin (RoHS)	1	J701	B3E
214	5202020100040	connector XF2M-2015-1A 20pin (RoHS)	1	J602	B2C
215	5207014200020	FFC/FPC connectorSD-52745-1497 14pin pitch0.5mm 00(RoHS)	1	J702	B2E
216	3701443940010	Crystal oscillator 44.395MHz±10PPmNX3225DA chip NDK(RoHS)	1	X401	T1E
217	4100780100000	TC-780 & TC-780M Mainboard PCB 1.2T / 6L / 4P Immersion Gold00 (RoHS)	1		
218	3001053030000	Chip resistor 0402 30KΩ F 1/16W (RoHS)	1	R437	B4D
219	3612051000020	Memory 24FC512-I/SM 512K 8-lead SOIC MICROCHIP (RoHS)	1	U606	B1H
220	3802448540000	Crystal filter 44.85MHz±6kHz DSF753SBF chip KDS(RoHS)	1	XF401	T1D
221	3801045530000	Ceramic filter 455KHz±4.5KHz CFWKA455KGFA-R0 (RoHS)	1	Z403	T1F
222	3001051220000	Chip resistor 0402 1.2KΩ J 1/16W (RoHS)	1	R143	T5F
223	3101050700010	Chip capacitor 0402 7PF B 50V GRM1555C1H7R0BZ01D (RoHS)	1	C469	T2C
224	3101053900000	Chip capacitor 0402 39P J 50V (RoHS)	1	C535	T2C
225	3101060300010	Chip capacitor 0603 3P B 50V (RoHS)	1	C107	T4E
	3101060300010	Chip capacitor 0603 3P B 50V (RoHS)	1	C115	T4E
	3101060300010	Chip capacitor 0603 3P B 50V (RoHS)	1	C117	T4E
226	3001053920000	Chip resistor 0402 3.9KΩ F 1/16W (RoHS)	1	R490	T2E
227	3101063300000	Chip capacitor 0603 33PF J 50V (RoHS)	1	C102	T3F
228	3104081550020	Tantalum capacitor 1206 1.5UF M 16V F931C155MA (RoHS)	1	C169	T5F
229	3214307180000	Inductor 0805 18nH C2012C-18NJ (RoHS)	1	L420	T2C
230	3214307220010	Inductor 0805 22nH C2012C-22NG (RoHS)	1	L418	T3B
231	3001055610010	Chip resistor 0402 560Ω F 1/16W (RoHS)	1	R141	T4F
232	3001084790000	Chip resistor 1206 4.7Ω J 1/4W (RoHS)	1	R680	B1D
233	3101060700020	Chip capacitor 0603 7P B 50V (RoHS)	1	C436	T4B
234	3101062000000	Chip capacitor 0603 20PF J 50V GRM1885C1H200J (RoHS)	1	C429	T5C
	3101062000000	Chip capacitor 0603 20PF J 50V GRM1885C1H200J (RoHS)	1	C520	T5C
235	3101062200010	Chip capacitor 0603 22pF J 50V (RoHS)	1	C415	T4D
236	3101062210000	Chip capacitor 0603 220P J 50V (RoHS)	1	C414	T5D
237	3101102260010	Chip capacitor 1206 22uF+80%/-20%10VC3216Y5V1A226Z (RoHS)	1	C685	B1B

TC-780M Keyboard Parts List 1

No.	Material No.	Description	Qty.	Ref No.	Print No.
1	3001051010000	Chip resistor 0402 100Ω J 1/16W(RoHS)	1	R703	B4A
	3001051010000	Chip resistor 0402 100Ω J 1/16W(RoHS)	1	R704	B4A
	3001051010000	Chip resistor 0402 100Ω J 1/16W(RoHS)	1	R705	B4A
2	3001053910000	Chip resistor 0402 390Ω J 1/16W(RoHS)	1	R702	B4A
3	3101051020010	Chip capacitor 0402 1000PF K 50V (RoHS)	1	C717	B5A
	3101051020010	Chip capacitor 0402 1000PF K 50V (RoHS)	1	C718	B5A
	3101051020010	Chip capacitor 0402 1000PF K 50V (RoHS)	1	C719	B5A
	3101051020010	Chip capacitor 0402 1000PF K 50V (RoHS)	1	C720	B5A
	3101051020010	Chip capacitor 0402 1000PF K 50V (RoHS)	1	C721	B5A
	3101051020010	Chip capacitor 0402 1000PF K 50V (RoHS)	1	C722	B4A
4	3101054710010	Chip capacitor 0402 470PF K 50V (RoHS)	1	C702	B4A
5	3307110100080	LED KPT-1608SGC (RoHS)	1	D702	T4F
	3307110100080	LED KPT-1608SGC (RoHS)	1	D703	T2F
	3307110100080	LED KPT-1608SGC (RoHS)	1	D704	T4E
	3307110100080	LED KPT-1608SGC (RoHS)	1	D705	T2E
	3307110100080	LED KPT-1608SGC (RoHS)	1	D706	T4D
	3307110100080	LED KPT-1608SGC (RoHS)	1	D707	T2D
	3307110100080	LED KPT-1608SGC (RoHS)	1	D708	T4G
	3307110100080	LED KPT-1608SGC (RoHS)	1	D709	T2G
6	5207014200020	FFC/FPC connector 14pin pitch0.5mm (RoHS)	1	J702	B5A
7	4100780200000	TC-780&TC-780M keyboard PCB 1.0T/2L/4P (RoHS)	1		





Adjustment Description


Required Test Instruments

- | | |
|---------------------------------|-------|
| 1. Radio communication test set | 1 set |
| 2. Scanner | 1 set |
| 3. 3A/10V power supply | 1 set |
| 4. Digital voltmeter | 1 set |
| 5. 3A Ammeter | 1 set |

Preparation

1. All reset

- ⑤ Enter the mode
 - ⑤ Turn on the radio while holding down  and SK2 for two seconds, then release the keys to enter all reset mode. Simultaneously, the orange LED flashes twice.
 - ⑤ Select frequency band
- Press  /  to select the corresponding frequency band, for example, select 350-390 for U5, then press .
- ⑤ Select reset type

Available options are Function (function data), Machine infor (tuning items and radio information), and All data. Select All data at the first time. Then press  to begin reset.


After reset is completed, the radio displays "Successful" and the green LED glows solidly.

2. VCO

Item	Condition	Measurement		Adjustment		Specifications / Remarks
		Test Instrument	Terminal	Part	Method	
1. Setting	1. Power supply					
2. Tx VCO lock voltage	1. CH: Tx high.	Digital Voltmeter VCO adjusting fixture	CV	TC114	3.6V±0.1V	
	2. CH: Tx low.				Check	>0.5V
3. Rx VCO lock voltage	1. CH: Rx high.			TC104	4.0V±0.1V	
	2. CH: Rx low.				Check	>0.5V

Adjustment Procedures

1. Procedures before adjustment

Turn on the radio while holding down  and SK2 for two seconds, then release the keys to enter manual adjust mode. Simultaneously, the orange LED flashes once.

2. Adjustment items

The purpose of manual adjustment is to adjust Tx frequency deviation, transmit power, Rx sensitivity, squelch, and etc.

⑤ SK2 key

Set the operating frequency. Center frequency (F3) is for one point adjustment, F1, F3 and F5 are for three points adjustment, and F1 through F5 are for five points adjustment. Frequency switches from low to high in cycle. The green LED glows once when the frequency is displayed to be F1.

Note: F1 through F5 refer to Point 1, Point 2, Point 3, Point 4 and Point 5 mentioned in the Frequency Table below.

⑤ TK key

Set channel bandwidth. Value switches in the cycle of 25K -> 20K -> 12.5K. The red LED glows once when 25K is selected.

⑤ PTT / SK1 (or the Channel Selector Knob)

Press the PTT to adjust up, and press SK1 to adjust down. You may also rotate the Channel Selector Knob clockwise to adjust up, or counter-clockwise to adjust down. The red and green LED glow when selections reach the maximum and minimum value respectively. Press the PTT to select a value for items BATT LOW, SQL and VOX, and simultaneously, the green LED glows once.

⑤ Select an adjustment item

When the adjustment mode is active, press ▲ / ▼ to select an adjustment item.

⑤ Display of an adjustment value

Press **OK** to display adjustment value, which shall disappear from LCD once you press **C**.

⑤ Save an adjustment value

After adjustment is completed, you need to press ▲ / ▼ to save the adjustment value and go to another adjustment item.

⑤ Adjustment of tuning frequency points (Tuning frequencies are set through the programming software.)

③ Five points adjustment (MHz)

TX: {TX1, TX2, TX3, TX4, TX5};

RX: {RX1, RX2, RX3, RX4, RX5}.

③ Three points adjustment (MHz)

TX: {TX1, TX3, TX5};

RX: {RX1, RX3, RX5}.

③ One point adjustment (MHz)

TX: {TX3};

RX: {RX3}.

Frequency table of five points adjustment:

Frequency band (MHz)	Point 1 (MHz)	Point 2 (MHz)	Point 3 (MHz)	Point 4 (MHz)	Point 5 (MHz)
136-174 (V)	TX1:136 RX1:136.15	TX2:145.5 RX2:145.65	TX3:155 RX3:155.15	TX4:164.5 RX4:164.65	TX5:174 RX5:173.85
400-440 (U1)	TX1:400 RX1:400.15	TX2:410 RX2:410.15	TX3:420 RX3:420.15	TX4:430 RX4:430.15	TX5:440 RX5:439.85
440-470 (U2)	TX1:440 RX1:440.15	TX2:447.5 RX2:447.65	TX3:455 RX3:455.15	TX4:462.5 RX4:462.65	TX5:470 RX5:469.85
420-470 (U3)	TX1:420 RX1:420.15	TX2:432.5 RX2:432.6	TX3:445 RX3:445.15	TX4:457.5 RX4:457.65	TX5:470 RX5:469.85
470-520 (U4)	TX1:470 RX1:470.15	TX2:482.5 RX2:482.65	TX3:495 RX3:495.15	TX4:507.5 RX4:507.65	TX5:520 RX5:519.85
300-350 (U6)	TX1:300 RX1:300.15	TX2:312.5 RX2:312.65	TX3:325 RX3:325.15	TX4:337.5 RX4:337.65	TX5:350 RX5:349.85
350-390 (U5)	TX1:350 RX1:350.15	TX2:360 RX2:360.15	TX3:370 RX3:370.15	TX4:380 RX4:380.15	TX5:390 RX5:389.85
450-500 (U8)	TX1:450 RX1:450.15	TX2:462.5 RX2:462.65	TX3:475 RX3:475.15	TX4:487.5 RX4:487.65	TX5:500 RX5:499.85
400-470 (U9)	TX1:400 RX1:400.15	TX2:417 RX2:417.15	TX3:435 RX3:435.15	TX4:452 RX4:452.15	TX5:470 RX5:469.85

After all reset is completed, channel data corresponding to each frequency band in user mode is shown in the following table:

Channel	Rx frequency (MHz)	Tx frequency (MHz)	Signaling	Power	Channel spacing
1	RX1	TX1	None	High	25KHZ
2	RX3	TX3	None	High	25KHZ
3	RX5	TX5	None	High	25KHZ
4	RX1	RX1	None	Low	20KHZ
5	RX3	RX3	None	Low	20KHZ
6	RX5	RX5	None	Low	20KHZ
7	RX1	RX1	None	Low	12.5KHZ
8	RX3	RX3	None	Low	12.5KHZ
9	RX5	RX5	None	Low	12.5KHZ
10	RX3	RX3	67HZ	Low	25KHZ
11	RX3	RX3	254.1HZ	Low	25KHZ
12	RX3	RX3	023	Low	25KHZ
13	RX3	RX3	754	Low	25KHZ
14	RX3	RX3	2-TONE	Low	25KHZ
15	RX3	RX3	5-TONE	Low	25KHZ
16	RX3	RX3	None	Low	25KHZ

3. Operations and Objectives

Transmitter

Item	Condition	Test Instrument	Method	Objective
Frequency stability (Fre Stability)	Enter the adjustment mode and select an item. The radio is in transmitting status.	Radio Communication Test Set TX TEST	Adjust RP101	Frequency error ≤100HZ
Transmit power LOW (Tx L Power)	Enter the adjustment mode and select an item. Adjust point 5 of wideband.	Radio Communication Test Set TX TEST HPF: 20Hz LPF: 300Hz	PTT (up) SK1 (down) or the Channel Selector Knob	Adjust power to 1W ± 0.1W
DCS balance (Cdcss Pll Balance)	Enter the adjustment mode and select an item. Adjust point 3 of wideband.			Check the waveform
DCS deviation (Cdcss Dev)	Enter the adjustment mode and select an item. Adjust point 3 of wideband, point 1 of medium band, and point 1 of narrowband.		PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 750Hz±50Hz, 600Hz±50Hz, 400Hz±50Hz for wide, medium and narrow respectively.
CTCSS (67.0Hz) deviation (Ctcss L Dev) low frequency	Enter the adjustment mode and select an item. Adjust point 3 of wideband, point 1 of medium band, and point 1 of narrowband.		PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 750Hz±50Hz, 600Hz±50Hz, 400Hz±50Hz for wide, medium and narrow respectively.
CTCSS (136.5Hz) deviation (Ctcss M Dev) center frequency	Enter the adjustment mode and select an item. Adjust point 3 of wideband, point 1 of medium band, and point 1 of narrowband.		PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 750Hz±50Hz, 600Hz±50Hz, 400Hz±50Hz for wide, medium and narrow respectively.
CTCSS (254.1Hz) deviation (Ctcss H Dev) high frequency	Enter the adjustment mode and select an item. Adjust point 3 of wideband, point 1 of medium band, and point 1 of narrowband.		PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 750Hz±50Hz, 600Hz±50Hz, 400Hz±50Hz for wide, medium and narrow respectively.

AK2346 Tx audio deviation (Ak2346 Tx Adjust)	Enter the adjustment mode and select an item. Adjust point 3 of wideband, point 1 of medium band, and point 3 of narrowband.	Radio Communication Test Set TX TEST HPF: 20Hz LPF: 15KHz 1KHZ 120mV	PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 4.5KHz \pm 0.1KHz, 3.2KHz \pm 0.1KHz, 2.2KHz \pm 0.1KHz for wide, medium and narrow respectively.
2-TONE deviation (Tone Signal Dev)	Enter the adjustment mode and select an item. Adjust point 1 of wideband, point 1 of medium band, and point 1 of narrowband.	Radio Communication Test Set TX TEST HPF: 20Hz LPF: 15KHz No modulated signal.	PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 3.0KHz \pm 0.2KHz, 2.4KHz \pm 0.2KHz, 1.5KHz \pm 0.2KHz for wide, medium and narrow respectively.
DTMF deviation (DTMF Dev)	Enter the adjustment mode and select an item. Adjust point 1 of wideband, point 1 of medium band, and point 1 of narrowband.		PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 3.0KHz \pm 0.2KHz, 2.4KHz \pm 0.2KHz, 1.5KHz \pm 0.2KHz for wide, medium and narrow respectively.
MSK deviation (MSK Dev)	Enter the adjustment mode and select an item. Adjust point 3 of wideband, point 1 of medium band, and point 1 of narrowband.		PTT (up) SK1 (down) or the Channel Selector Knob	Adjust frequency deviation to 3.0KHz \pm 0.2KHz, 2.4KHz \pm 0.2KHz, 1.5KHz \pm 0.2KHz for wide, medium and narrow respectively.
VOX GAIN1 (Vox Gain Min)	Enter the adjustment mode and select an item. Adjust point 1 of wideband.	Radio Communication Test Set TX TEST HPF: 20Hz	Save	Adjust the frequency to 1KHz, and amplitude to 15mv for modulation signal, then press the PTT to save.
VOX GAIN5 (Vox Gain Max)	Enter the adjustment mode and select an item. Adjust point 1 of wideband.	LPF: 15KHz	Save	Adjust the frequency to 1KHz, and amplitude to 6mv for modulation signal, then press the PTT to save.
Transmit power HIGH (Tx H Power)	Enter the adjustment mode and select an item. Adjust point 5 of wideband.	Radio Communication Test Set TX TEST	PTT (up) SK1 (down) or the Channel Selector Knob	Adjust power to 4.7W \pm 0.2W

Low battery transmit (Low Vol Tran)	Enter the adjustment mode and select an item. Adjust point 1 of wideband.		Save	Adjust voltage to 5.8V, then press the PTT to save.
Power in tuning mode (Power In tune)	Enter the adjustment mode and select an item. Adjust point 1 of wideband.	Radio Communication Test Set TX TEST	PTT (up) SK1 (down) or the Channel Selector Knob	Adjust power in tuning mode to 0.3W±0.1W

Receiver

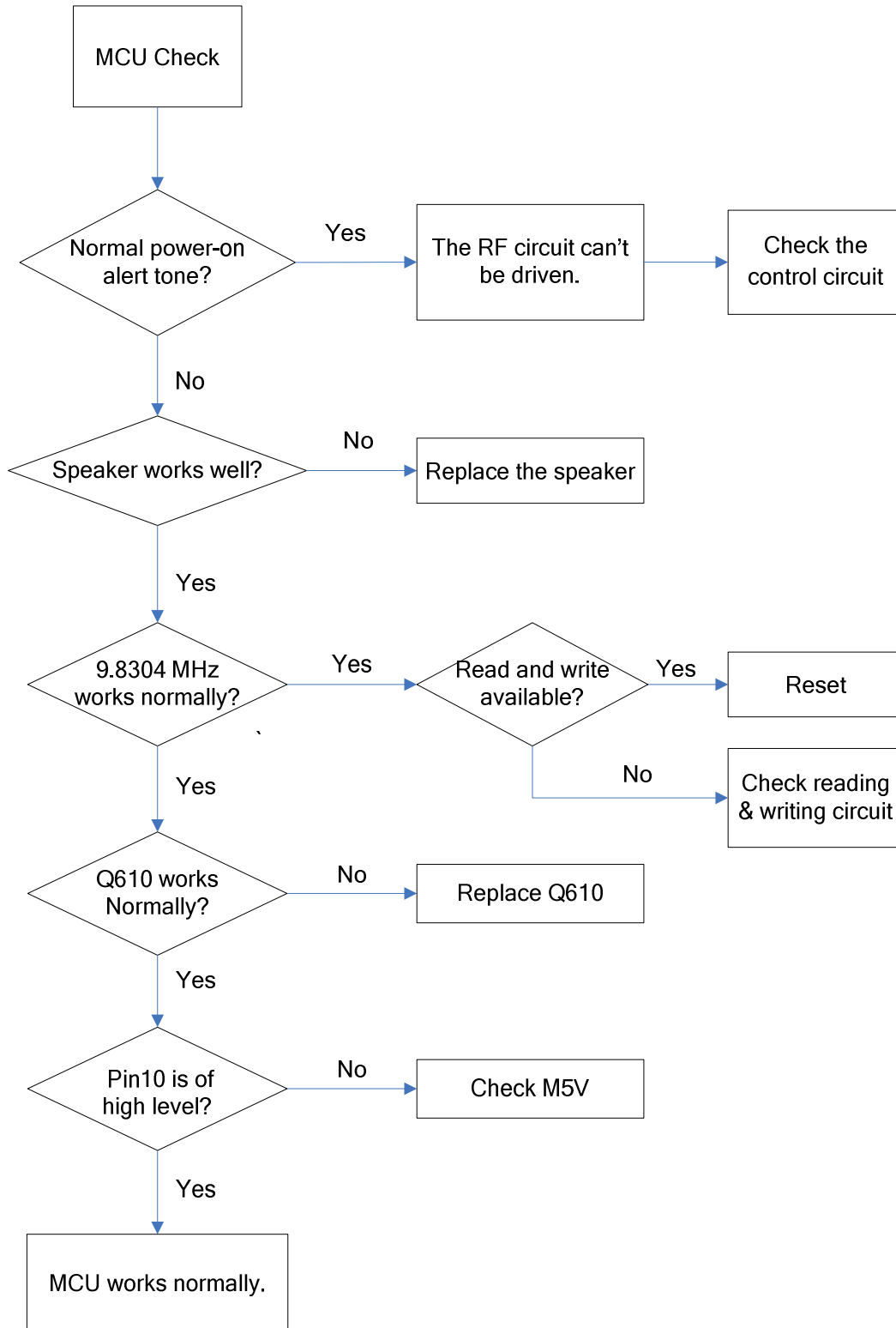
Item	Condition	Test Instrument	Method	Objective
Rx Sensitivity	Enter the adjustment mode and select an item. Adjust the five points of wideband.	Radio Communication Test Set RX TEST HPF: 300HZ LPF: 3KHZ	PTT (up) SK1 (down) or the Channel Selector Knob	When level is adjusted to 119dBm, SINAD≥12dB
AK2346 receive volume adjust (Ak2346 Rx)	Enter the adjustment mode and select an item. Adjust the point 1 of wideband, medium band and narrowband respectively.		PTT (up) SK1 (down) or the Channel Selector Knob	When the volume control knob is positioned at the maximum volume level, adjust AC Level to 1.8W±0.2W (20 Ω), single input AC Level to 3.0V±0.2V, and dual input AC Level to 6V±0.2V.
Three levels squelch level OPEN (Sql Normal Open)	Enter the adjustment mode and select an item. Adjust point 5 of wideband, point 1 of medium band, and point 3 of narrowband.		Save	For U5: Adjust level to -122dBm, then press the PTT to save. For U1/U2: Adjust level to -120dBm, then press the PTT to save.
Three levels squelch level SQUELCH (Sql Normal Squelch)	Enter the adjustment mode and select an item. Adjust point 5 of wideband, point 1 of medium band, and point 3 of narrowband.		Save	For U5: Adjust level to -125dBm, then press the PTT to save. For U1/U2: Adjust level to -122dBm, then press the PTT to save.
Nine levels squelch level OPEN (Sql Tig Open)	Enter the adjustment mode and select an item. Adjust point 5 of wideband, point 1 of medium band, and point 3 of narrowband.		Save	Adjust level to -114dBm, then press the PTT to save.

Nine levels squench level SQUELCH (Sql Tig Squelch)	Enter the adjustment mode and select an item. Adjust point 5 of wideband, point 1 of medium band, and point 3 of narrowband.		Save	Adjust level to -118dBm, then press the PTT to save.
RSSI adjust (MIN) (RSSI Adjust Min)	Enter the adjustment mode and select an item. Adjust point 5 of wideband, point 1 of medium band, and point 3 of narrowband.		Save	Adjust level to -125dBm, then press the PTT to save.
RSSI adjust (MAX) (RSSI Adjust Max)	Enter the adjustment mode and select an item. Adjust point 5 of wideband, point 1 of medium band, and point 3 of narrowband.		Save	Adjust level to -117dBm, then press the PTT to save.
Low voltage receive (Low Voltage Rx)	Enter the adjustment mode and select an item. Adjust point 1 of wideband.		Save	Adjust voltage to 6.3V, then press the PTT to save.

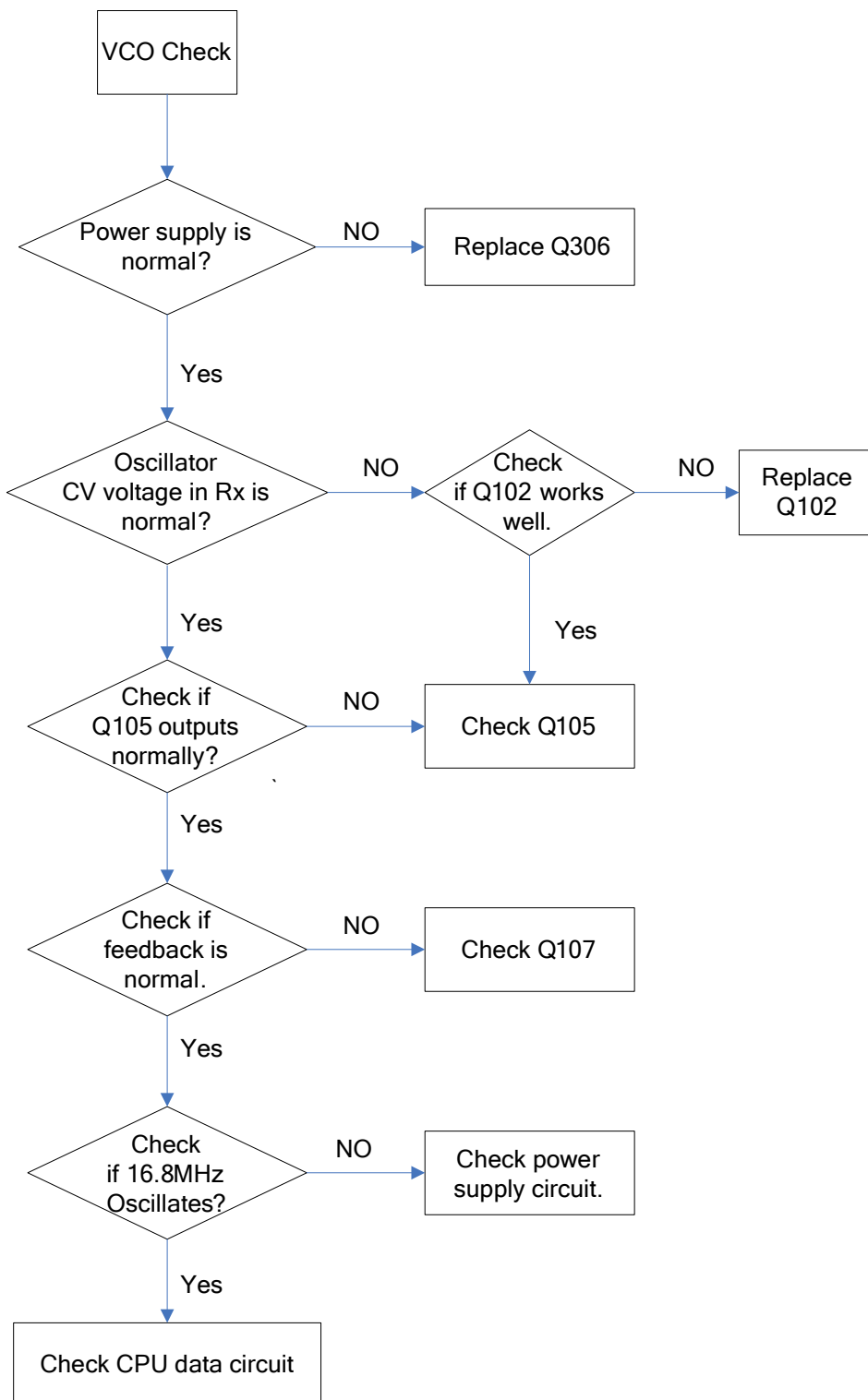
Note: frequency deviation of receiver: 3 KHz for wideband, 2.4 KHz for medium band, and 1.5 KHz for narrowband.

Troubleshooting Flow Chart

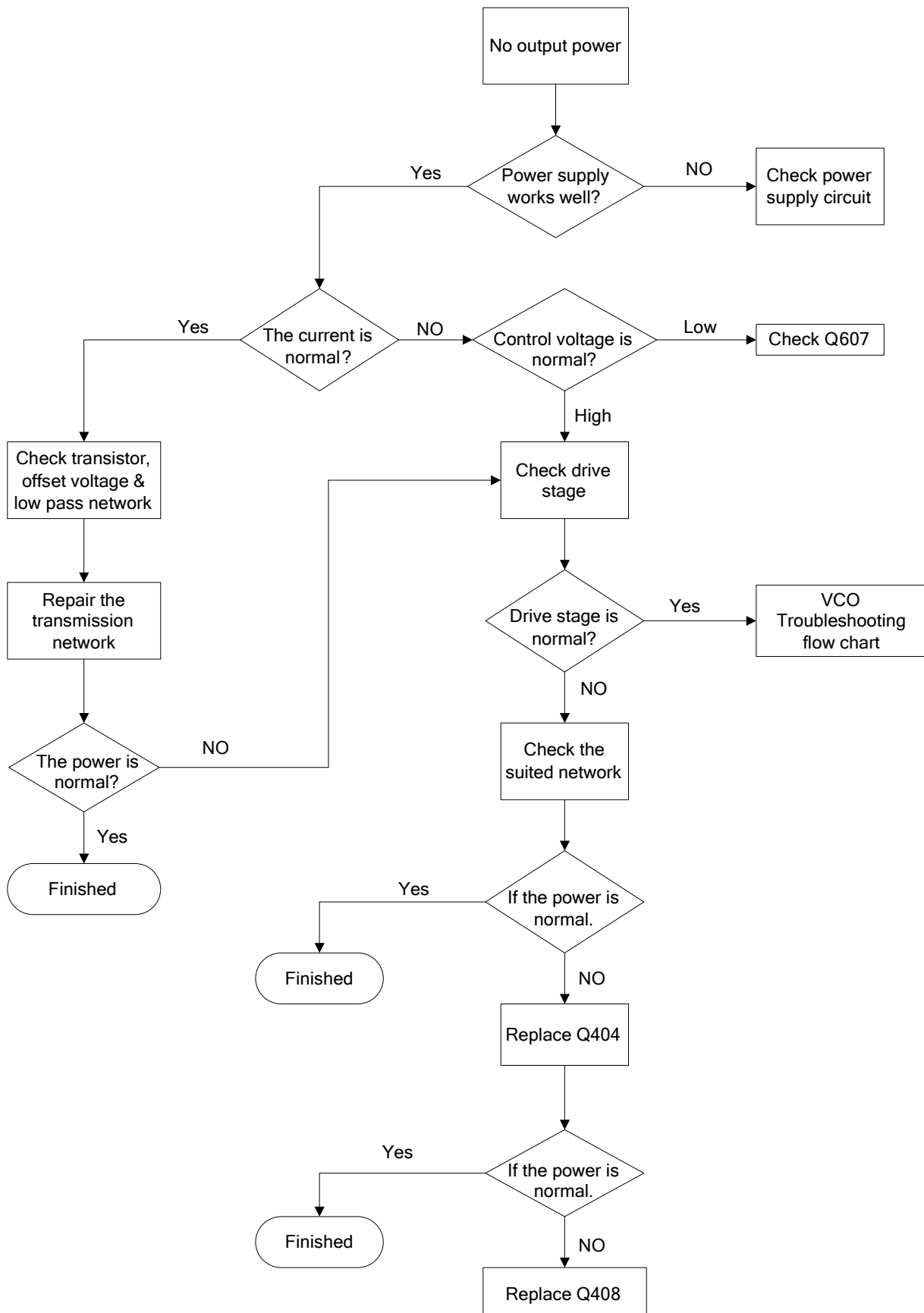
MCU



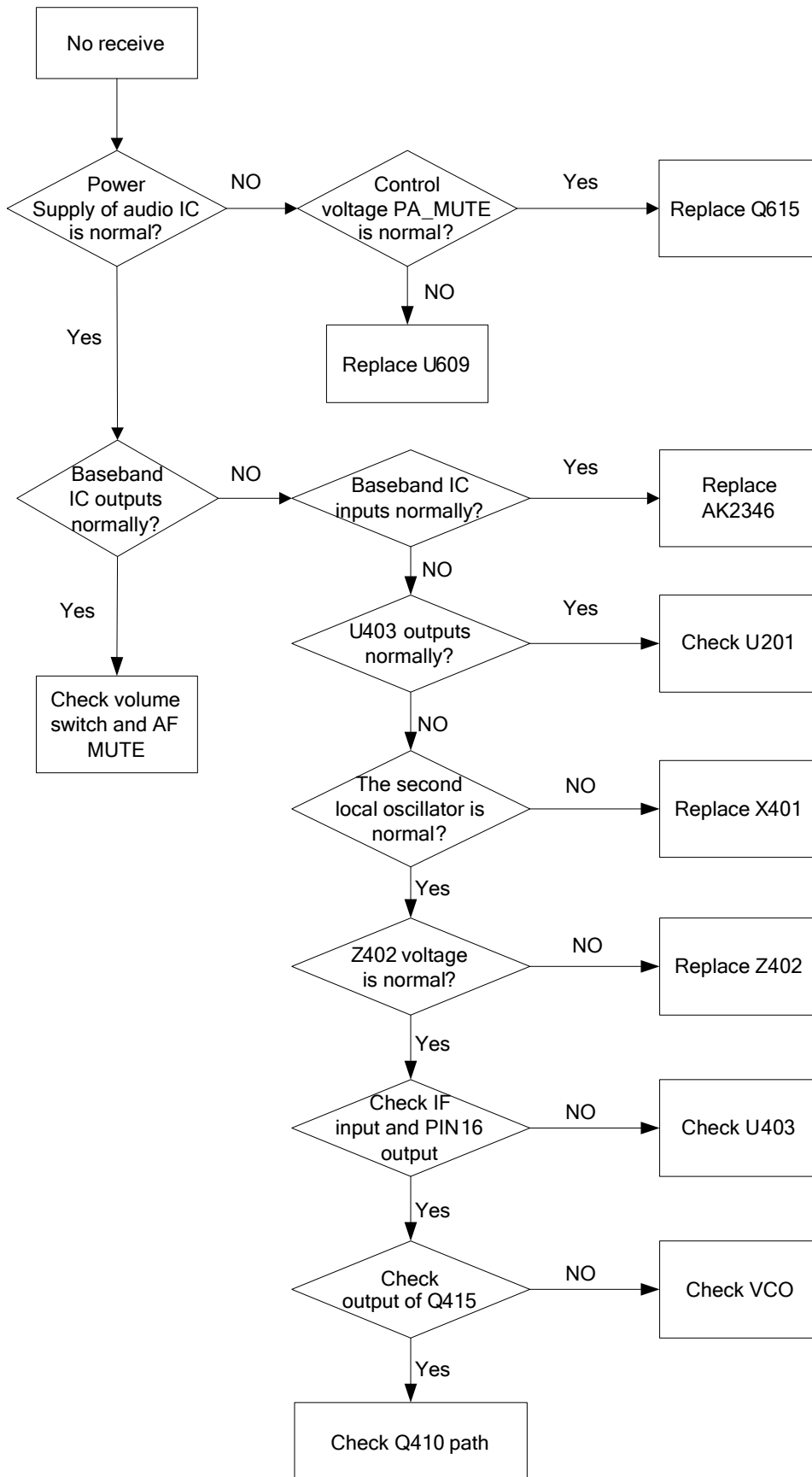
VCO



Transmit Circuit



Receive Circuit



Disassembly and Assembly for Repair

Disassemble the radio case

1. Remove the Radio On-Off / Volume Control Knob ① and Channel Selector Knob ②.
2. Lift the chassis by its bottom and pull it out of the radio case ③.

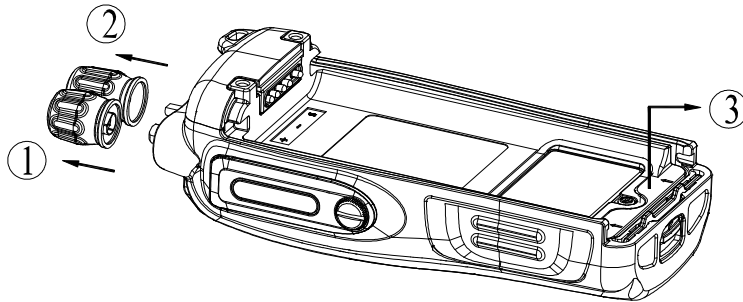


Figure 1

Disassemble the speaker

1. After you separate the chassis from the case, turn it for a certain degree, then disassemble the FPC from the connector on the PCB. Then remove the screw ④ on the speaker fixing ring, and remove the speaker fixing sheet ⑤.
2. Remove the speaker ⑥ and microphone ⑦.

Note: take care not to damage the FPC connecting the speaker and the chassis.

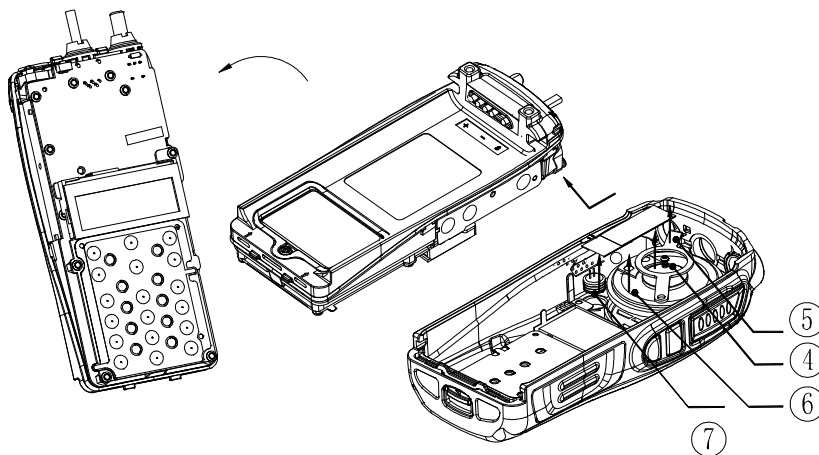


Figure 2

Disassemble the transmit and receive units

1. Screw out the waterproof ring ⑧, the nut ⑨, and screws ⑩ locking the keypad PCB, shown in figure 3.

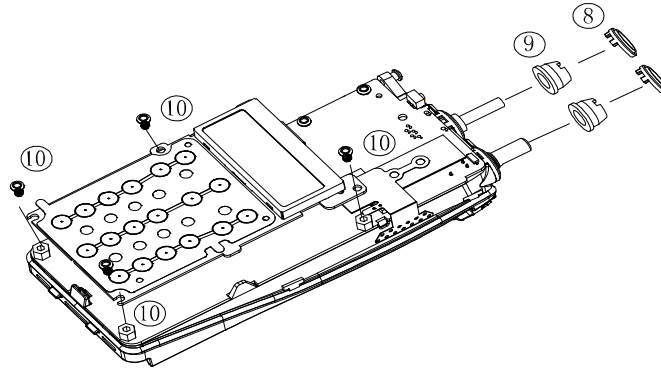


Figure 3

2. Rotate the keypad PCB module ⑪ for 180 degrees, and then remove FPC ⑫ and FFC ⑬ from the connector on the PCB.

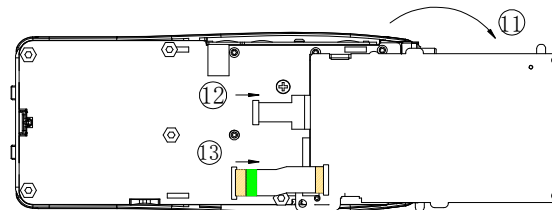


Figure 4

3. Remove the five DB head screws ⑭ on the PCB, screws ⑮ locking the PCB, and the screw ⑯ locking the side PTT keyboard.
4. Use an electric soldering iron to remove the two leads connecting motor from the PCB, and then to unsolder the soldering tin at the antenna connector.
5. Lift the PCB ⑰ and remove it from the chassis.

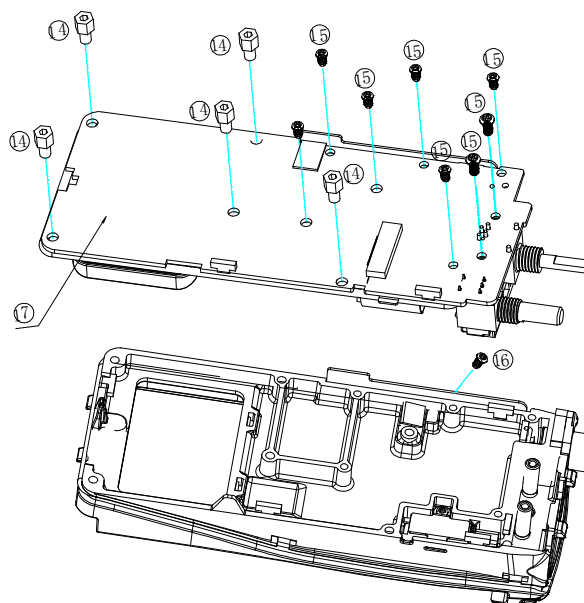


Figure 5

Precautions for assembly

Assemble the radio case and chassis

1. Make sure the waterproof cushion surrounding the chassis is well fitted into the slot ① of the chassis.
2. Correctly position and assemble the speaker on the radio case ②.

Note: make sure that the speaker is fully assembled into the radio case.

3. Fix the speaker sheet to the speaker, and secure it with screw ③.
4. Insert the top of the chassis into the radio case ④.

Note: Never have the speaker magnetic core being pressed by the FPC.

5. Press the bottom of the chassis downwards to fit the chassis into the radio case.

Note: If the chassis is assembled into the radio case, while the waterproof ring is not in position, use your fingers to place it at the right position.

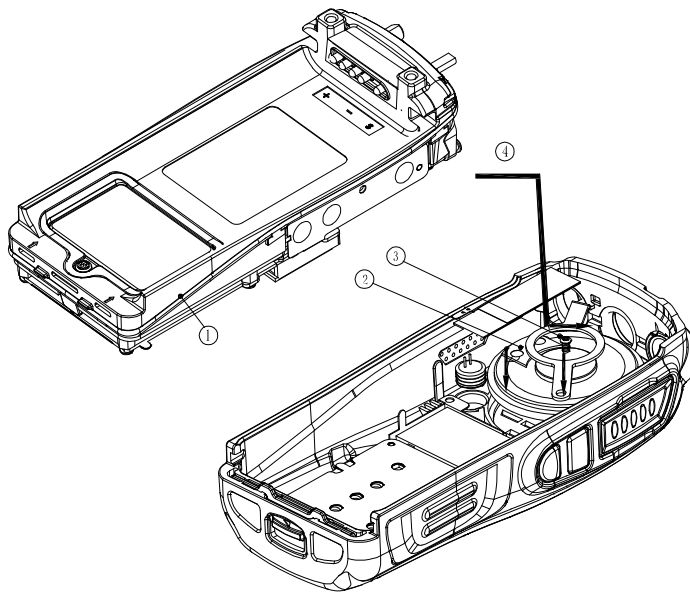
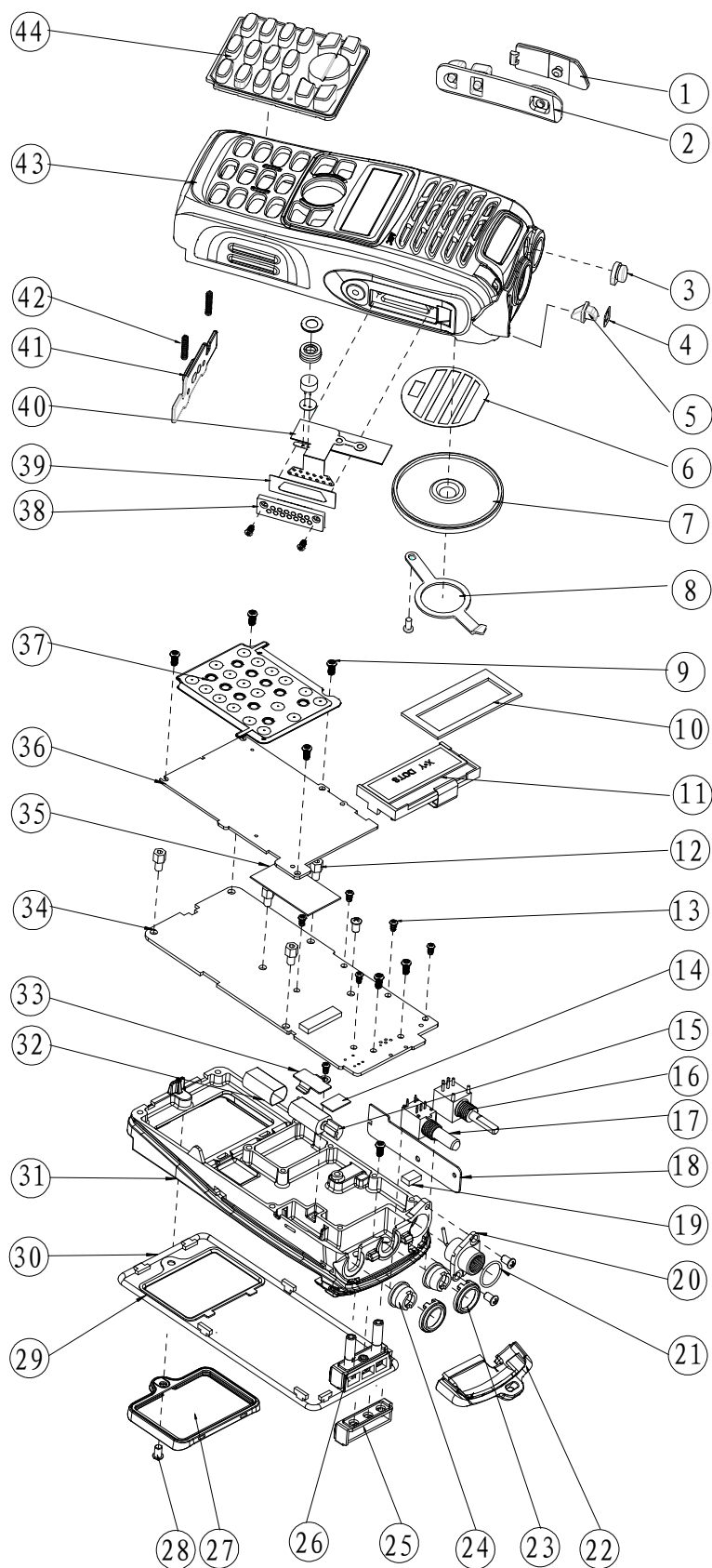


Figure 6

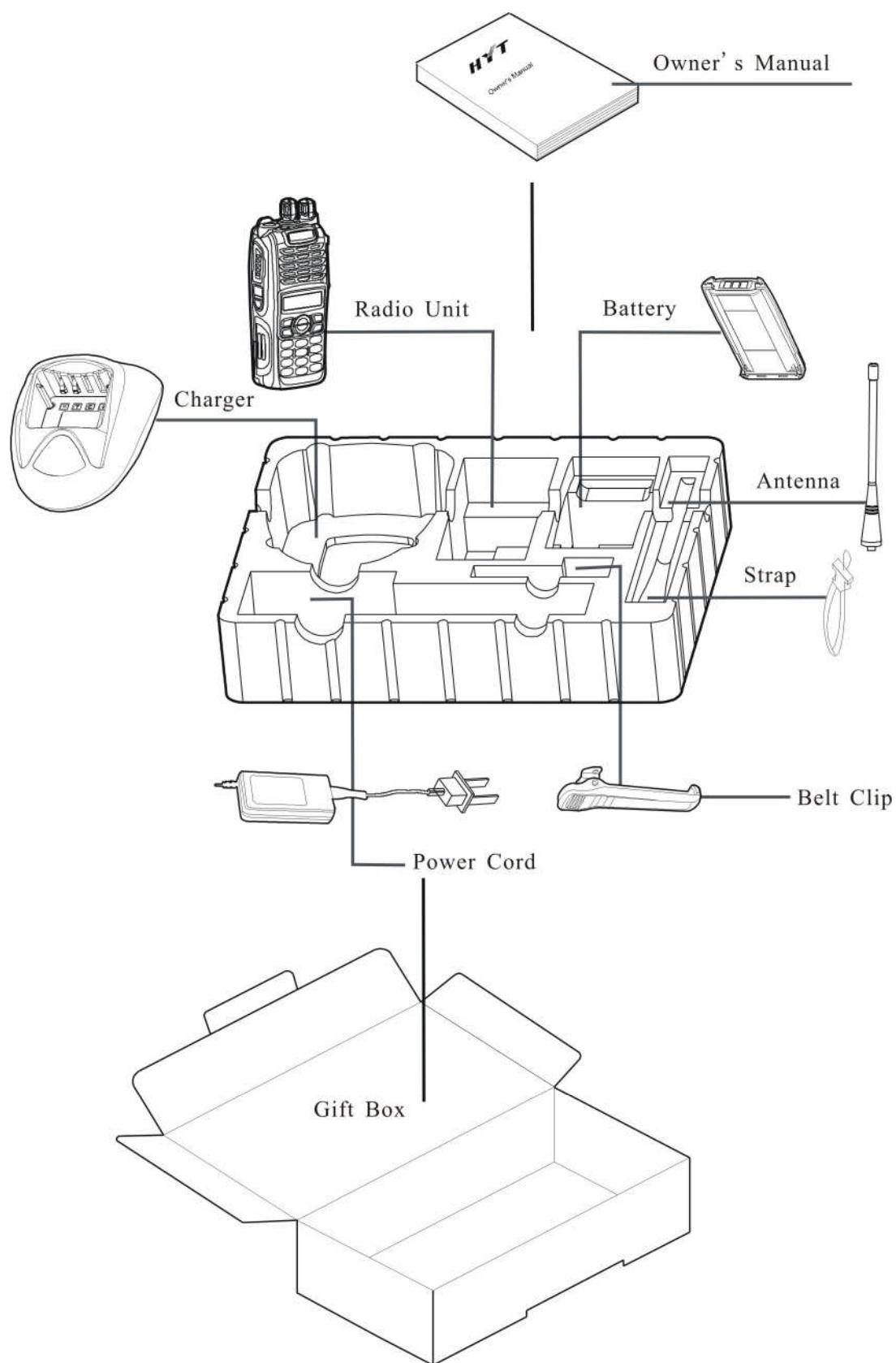
Exploded View



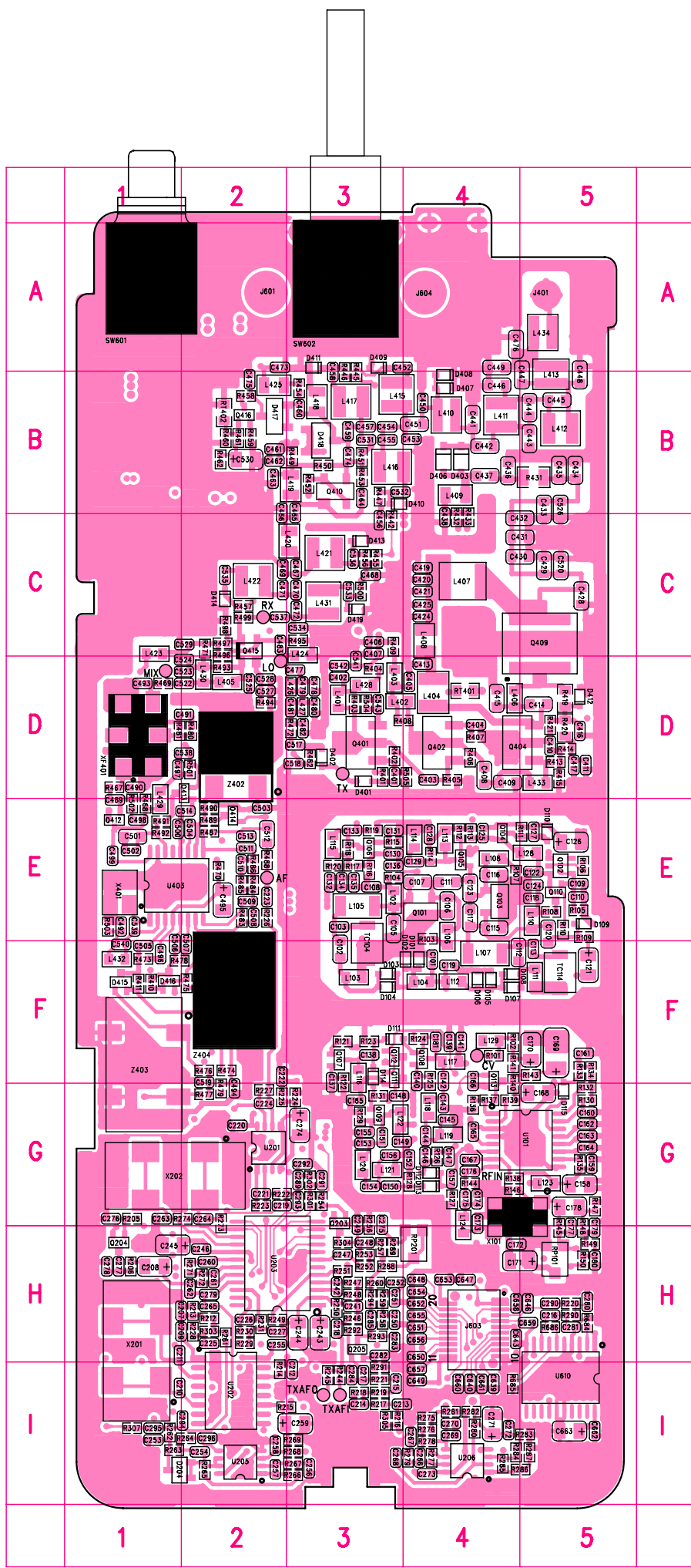
TC-780M Parts List 2

No.	Material No.	Description	Qty.
1	6000135000000	PTT key cover (RoHS)	1
2	6100068000000	PTT key (silica rubber) (RoHS)	1
3	6100319000000	Emergency key (silica rubber) (RoHS)	1
4	7500210000000	Adhesive tape, light guide 3M(9448) (RoHS)	1
5	6000609000000	Light guide (RoHS)	1
6	7400208000000	Felt, speaker PES+PBO(U500PBO) ϕ 40.0 (RoHS)	1
7	5001210000170	Speaker 20 Ω 1W/3W 90dB ϕ 40mm H5.0mm (RoHS)	1
8	6201545000000	Fixing sheet, speaker (RoHS)	1
9	7102003500200	Machine screw M2.0*3.5mm (RoHS)	4
10	7500230000000	Upper sponge, LCD (RoHS)	1
11	5110000000410	LCD module (RoHS)	1
12	7102504000400	DB head screw (screw 2.5*4, nut 2.0*3) (RoHS)	5
13	7102004021030	Self-tapping screw ST1.9*4.0mm (RoHS)	12
14	4210015000000	FFC (4Pin) 0.8T*30mm (RoHS)	1
15	5402001000010	Vibrating motor (RoHS)	1
16	4305030000050	E rotary switch (RoHS)	1
17	4302020000040	Volume switch (RoHS)	1
18	4100710200100	Side PTT keyboard (RoHS)	1
19	7500114000000	Cooler pad (RoHS)	1
20	4400000000000	SMA connector, male, 50 Ω (RoHS)	1
21	6100316000000	O_Ring (RoHS)	1
22	6000608000000	Rear cover PC(EXL9330) (RoHS)	1
23	6100069000000	Waterproof ring, volume control knob (RoHS)	2
24	7206004200000	Nut M6.0*4.2mm (RoHS)	2
25	6100322000000	Waterproof ring, battery connector (RoHS)	1
26	5202003100150	Battery connector (RoHS)	1
27	6100290000000	Waterproof ring, expansion port (RoHS)	1
28	7102504000300	Machine screw M2.5*4.0mm (RoHS)	1
29	6201507000000	Cover, expansion port (RoHS)	1
30	6100318000000	Waterproof ring (RoHS)	1
31	6300050000000	Aluminum chassis ADC12 (RoHS)	1
32	7500219000000	Motor (RoHS)	1
33	6201543000000	Sheet, motor (RoHS)	1
34	1300007100020	TC-780M PCB	1
35	4100710100100	FFC (14Pin) (RoHS)	1
36	1300007100030	Keyboard	1
37	7300028000000	Metal dome, function key (RoHS)	1
38	6000198000020	Earpiece jack (RoHS)	1
39	7400128010100	Waterproof PC pad (RoHS)	1

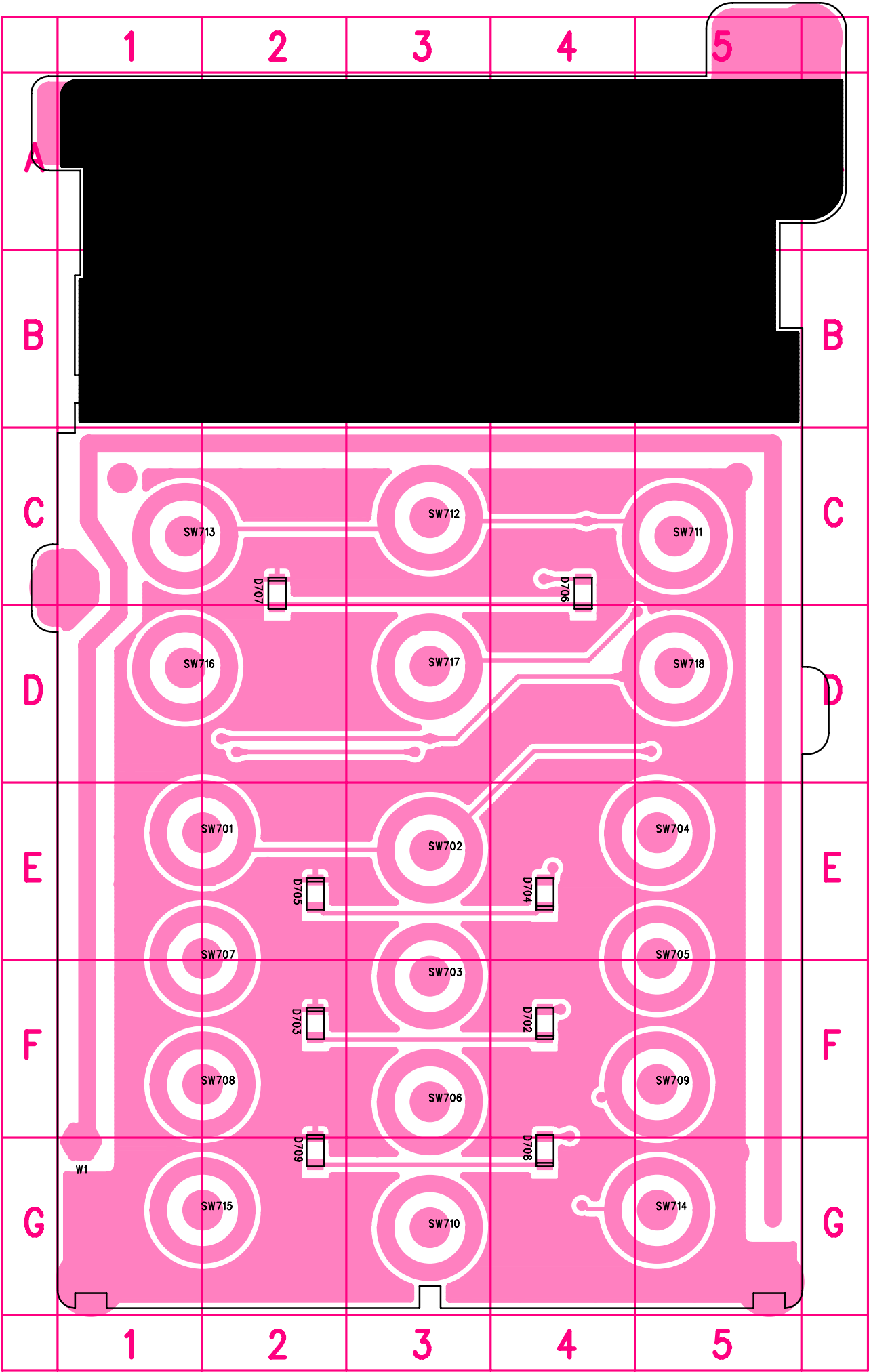
40	41007101002C0	FPCB (20Pin) (RoHS)	1
41	6000680000000	Battery latch (RoHS)	1
42	7000036000000	Spring (RoHS)	2
43	6000612000000	Front cover PC(EXL9330)+PMMA(CP-61) (RoHS)	1
44	6100317000000	Numeric keypad (RoHS)	1

Packing

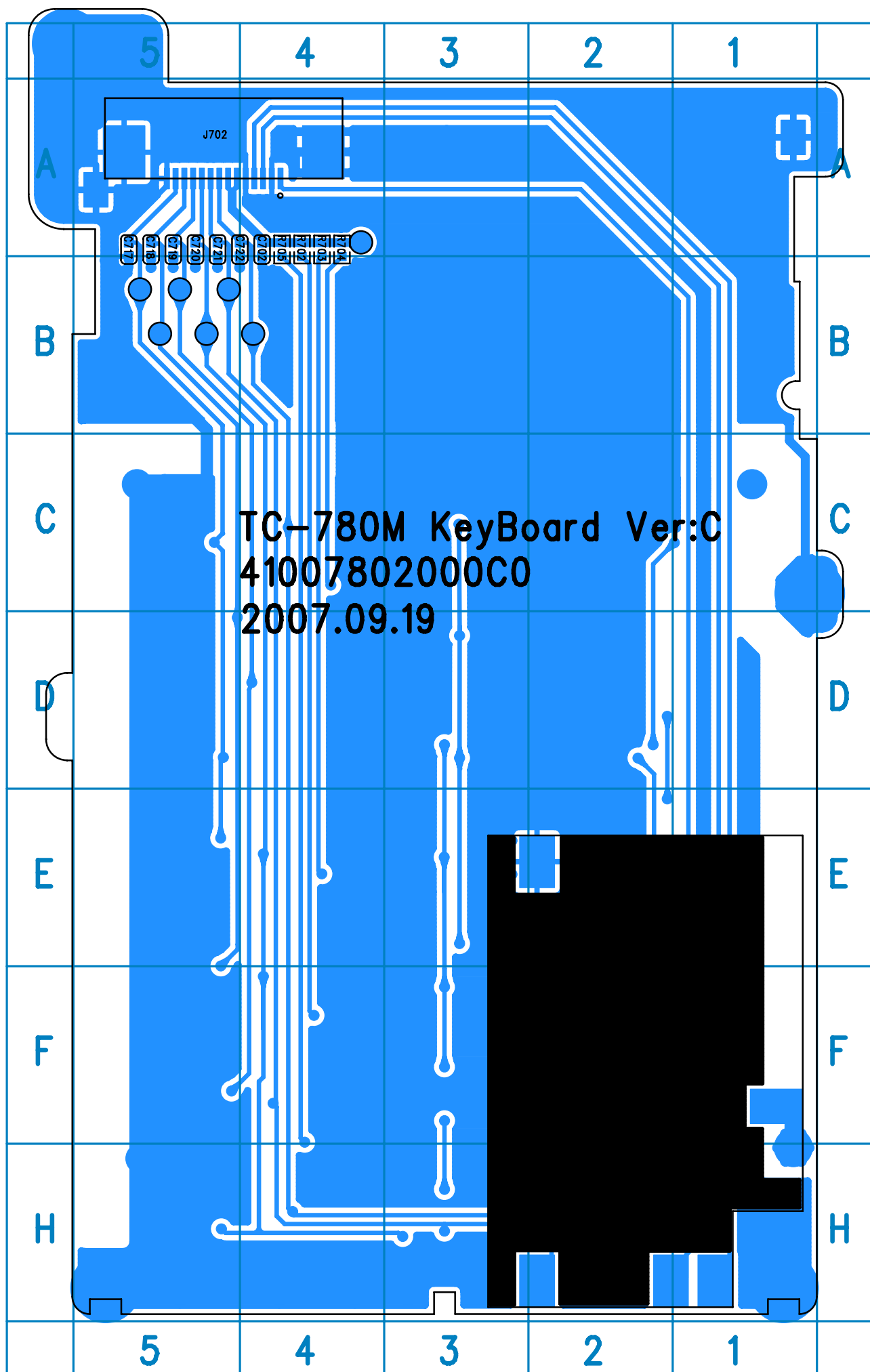
TC-780M PCB Top View



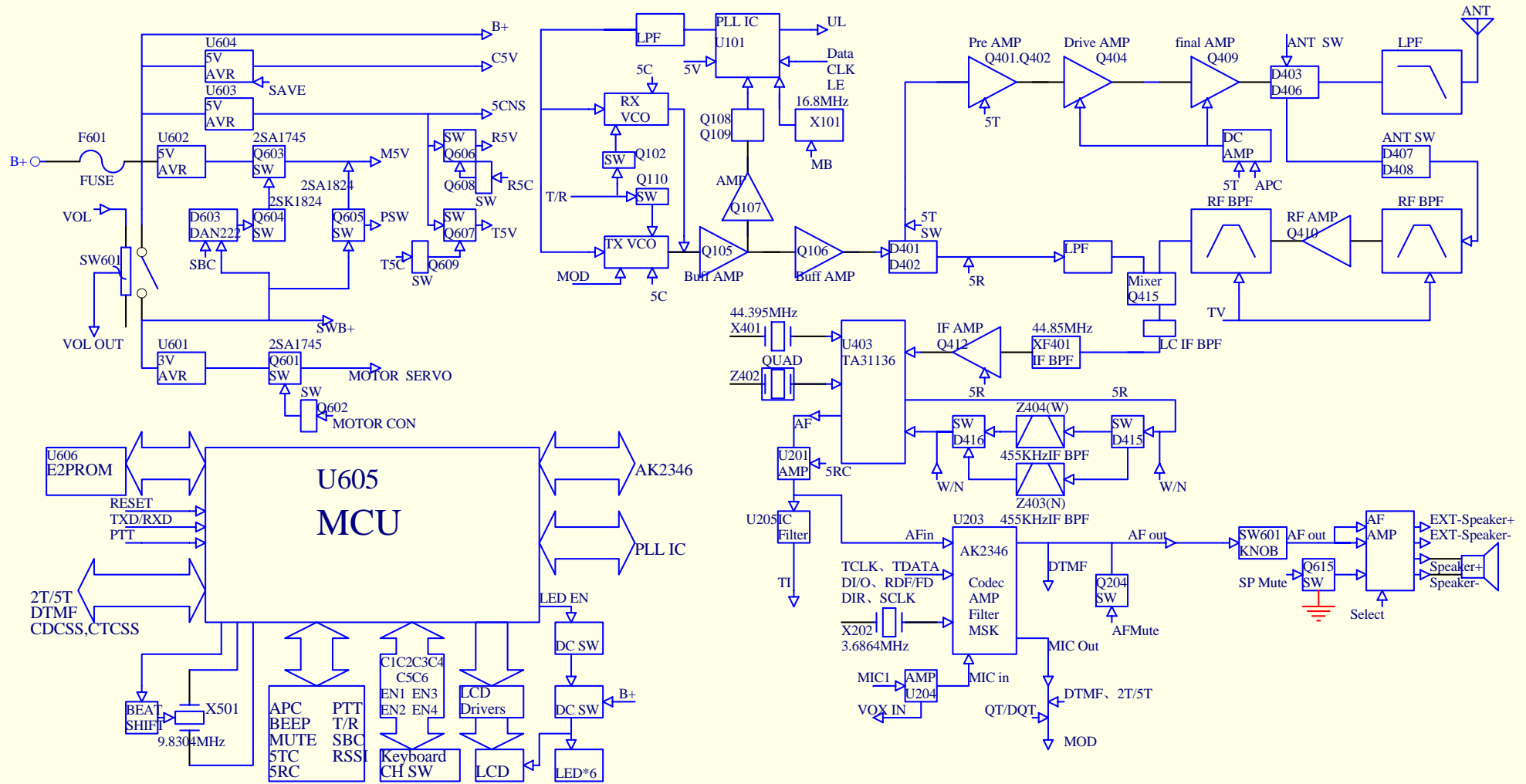
TC-780M Keyboard Top View



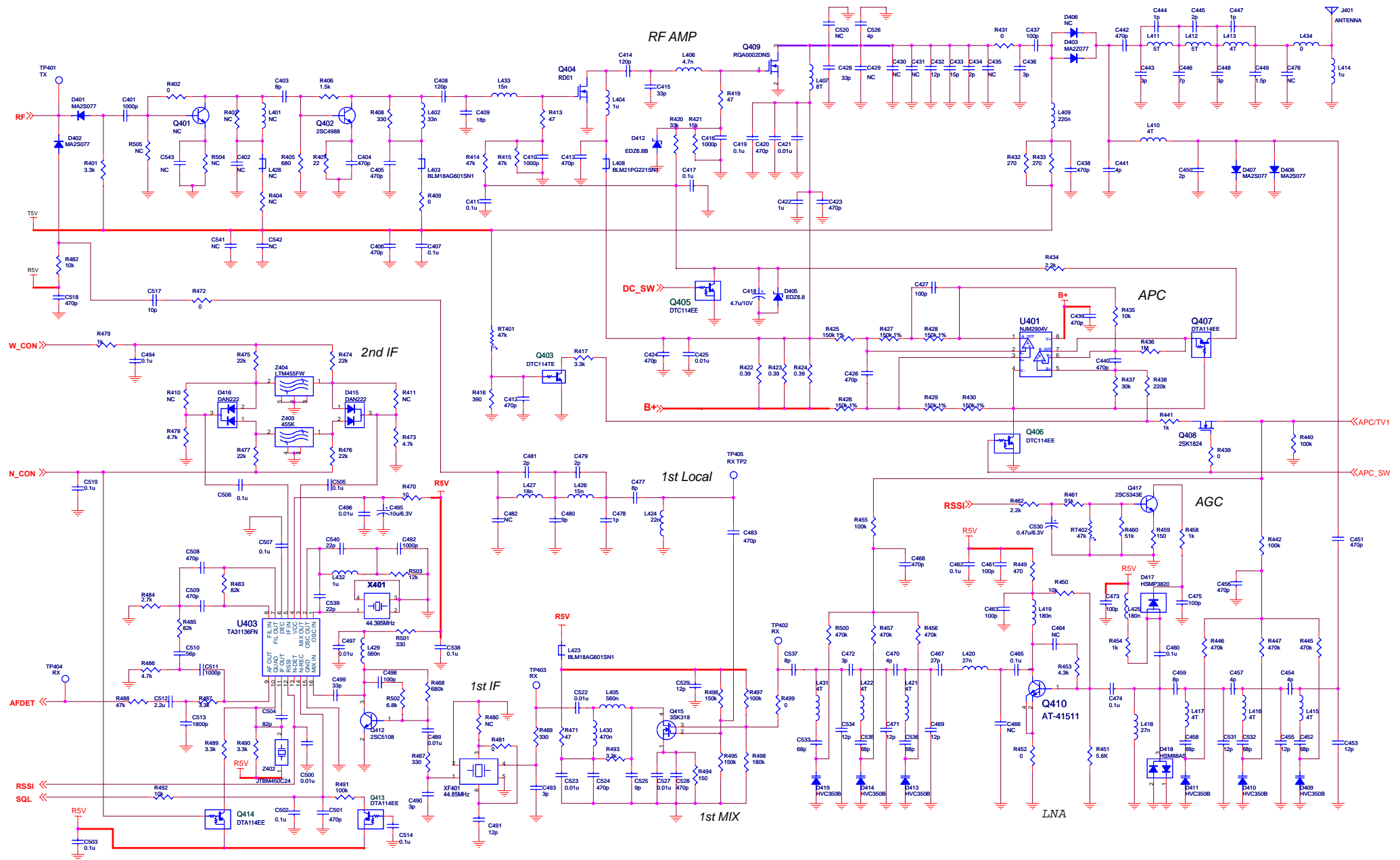
TC-780M Keyboard Bottom View



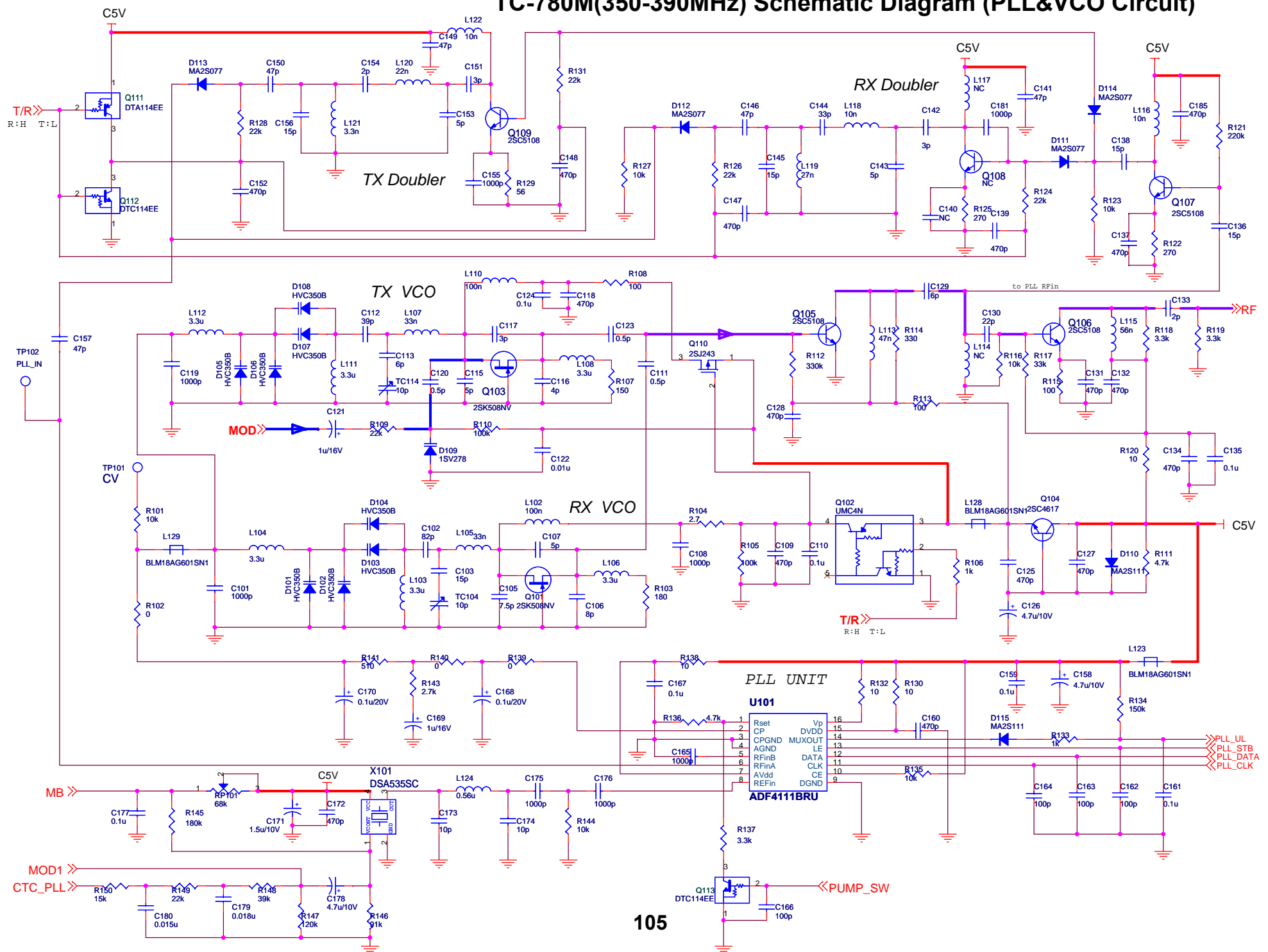
TC-780M Block Diagram



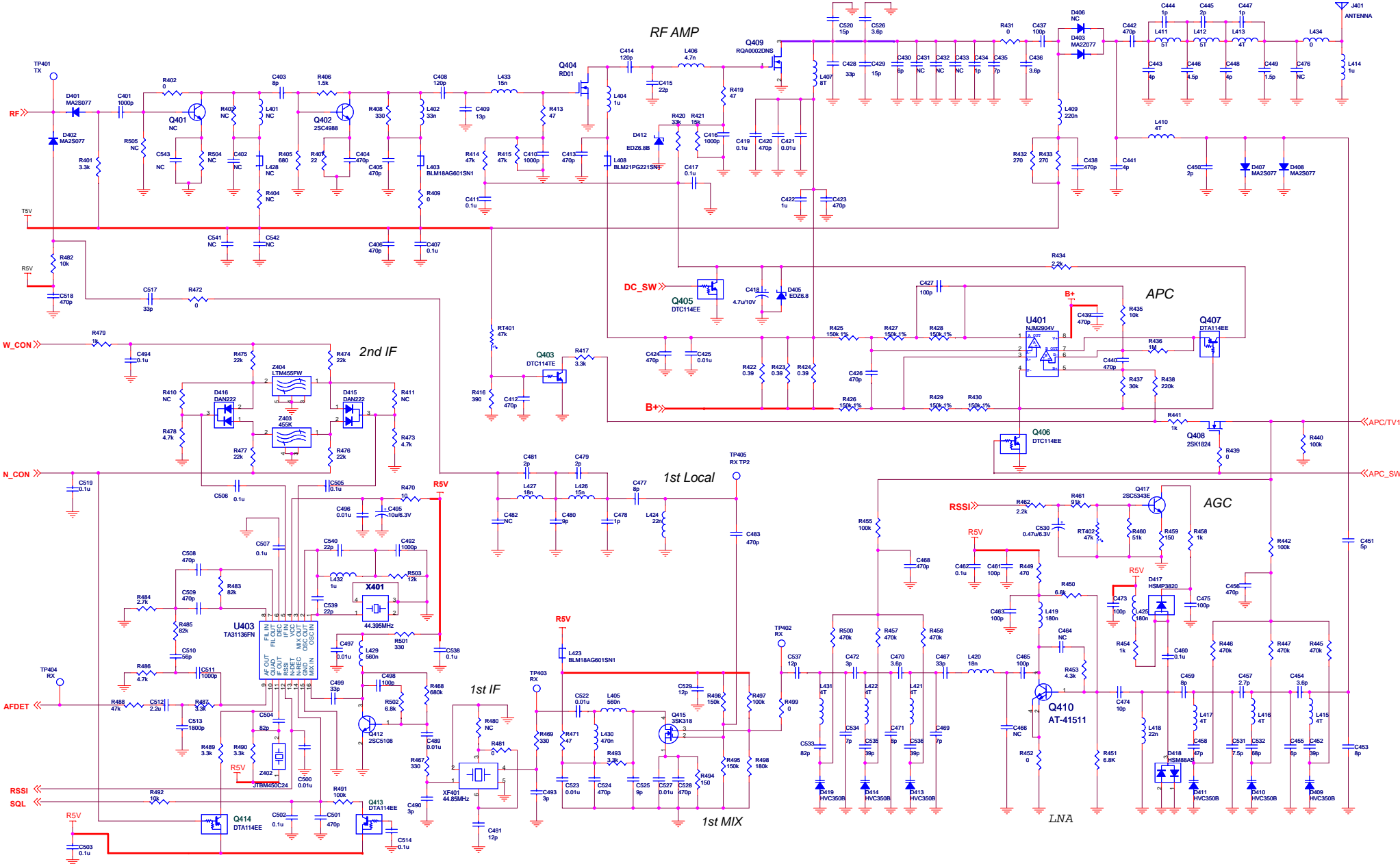
TC-780M(350-390MHz) Schematic Diagram (Rx/Tx Circuit)



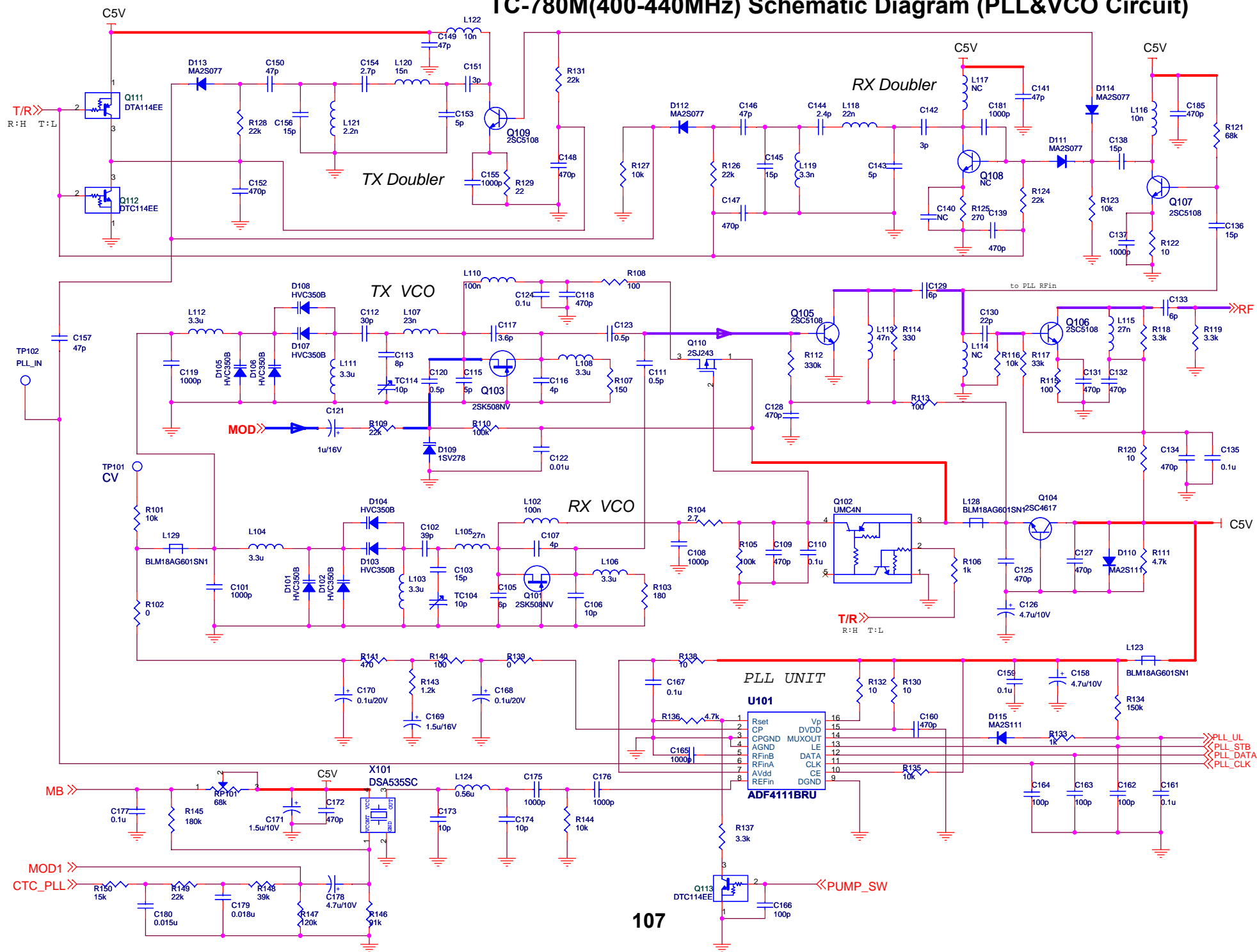
TC-780M(350-390MHz) Schematic Diagram (PLL&VCO Circuit)



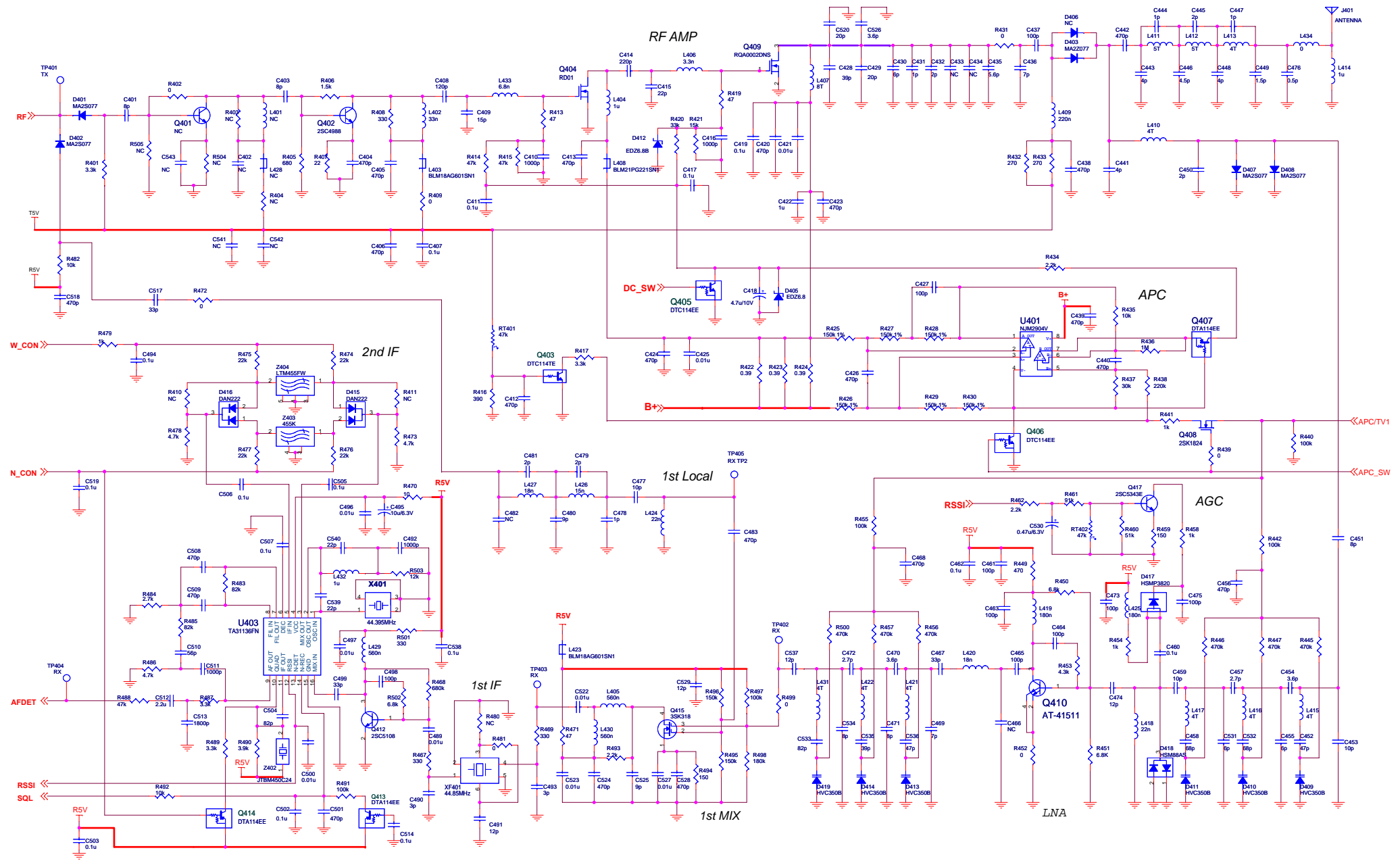
TC-780M(400-440MHz) Schematic Diagram (Tx/Rx Circuit)



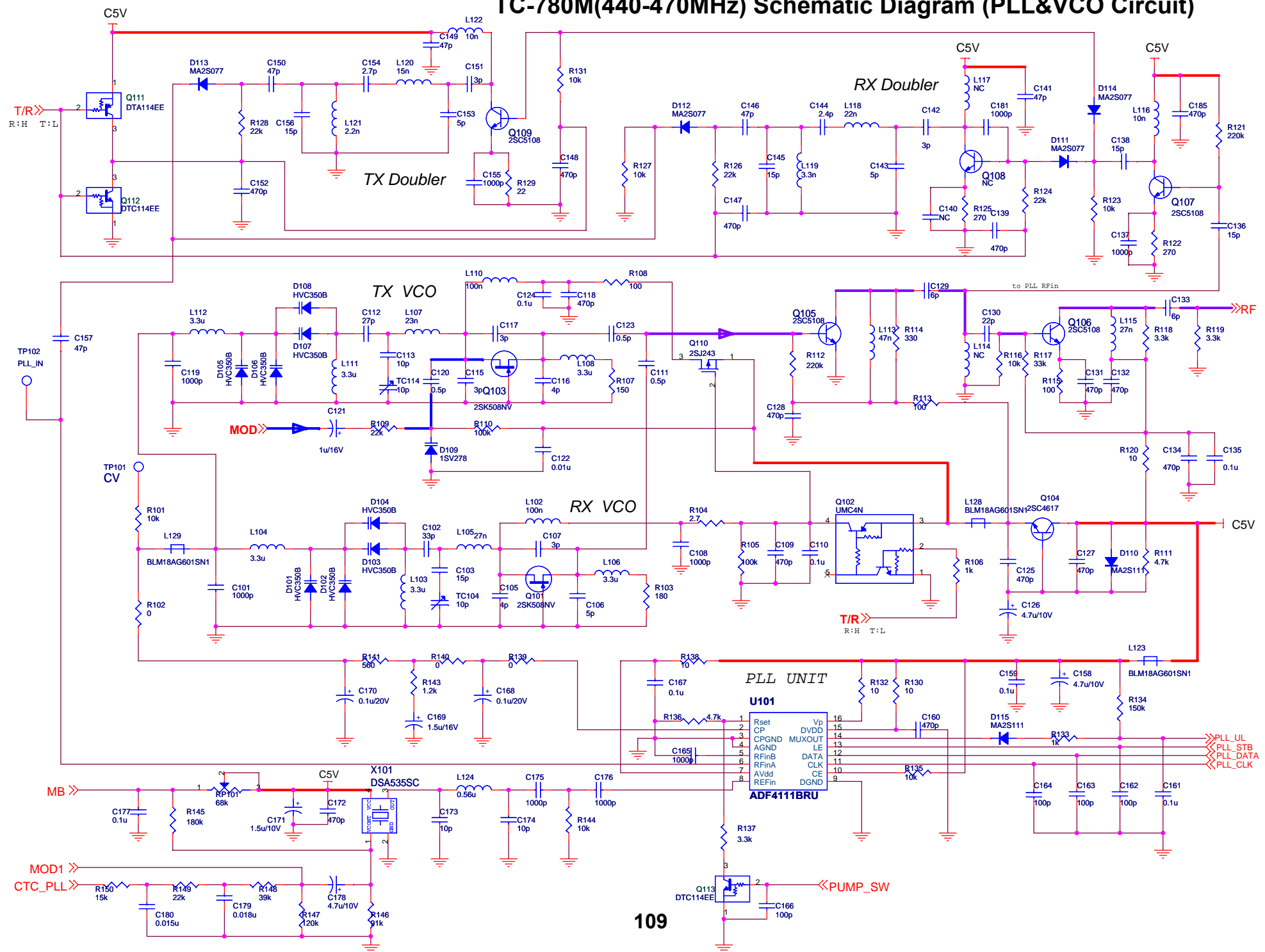
TC-780M(400-440MHz) Schematic Diagram (PLL&VCO Circuit)



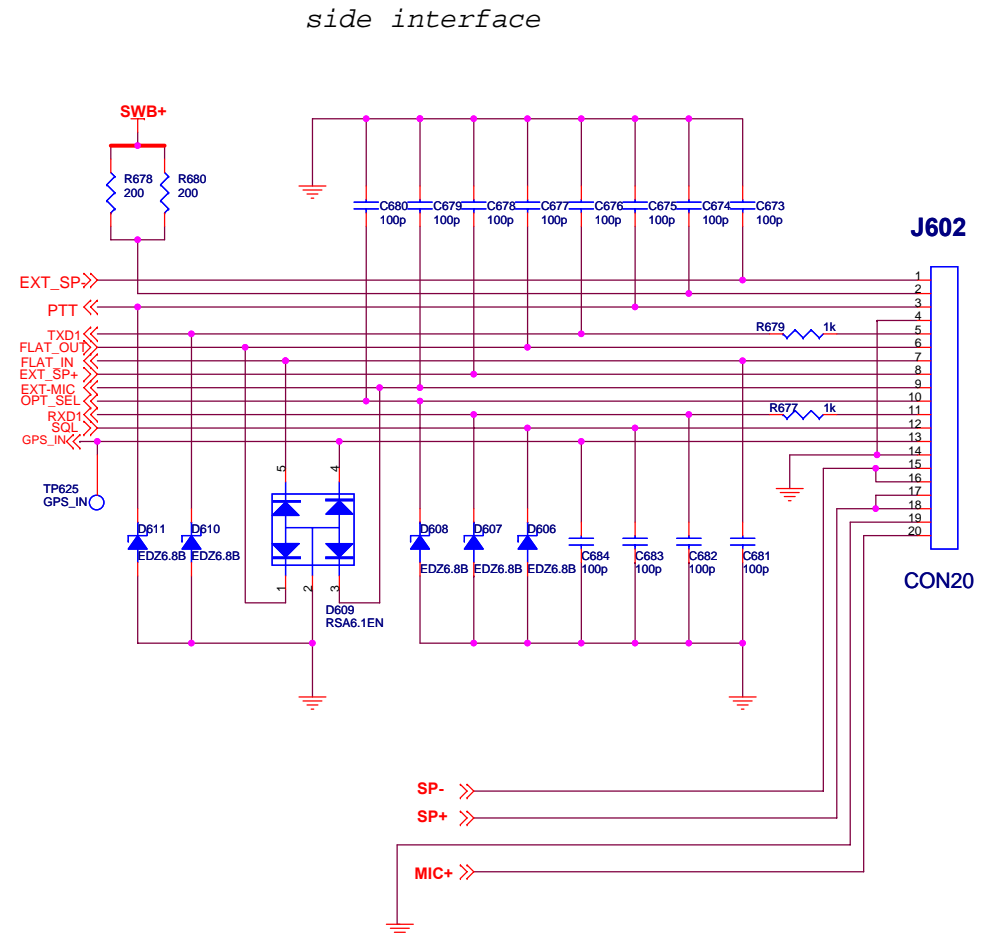
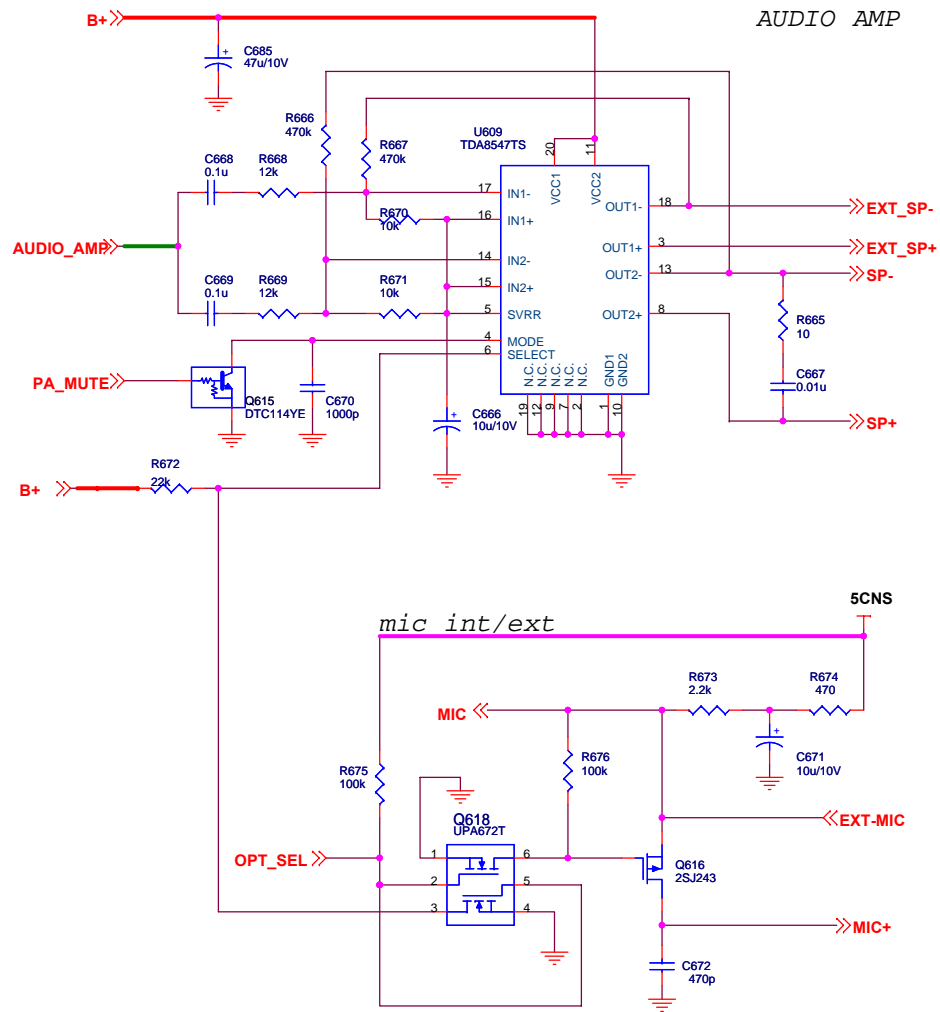
TC-780M(440-470MHz) Schematic Diagram (Tx/Rx Circuit)



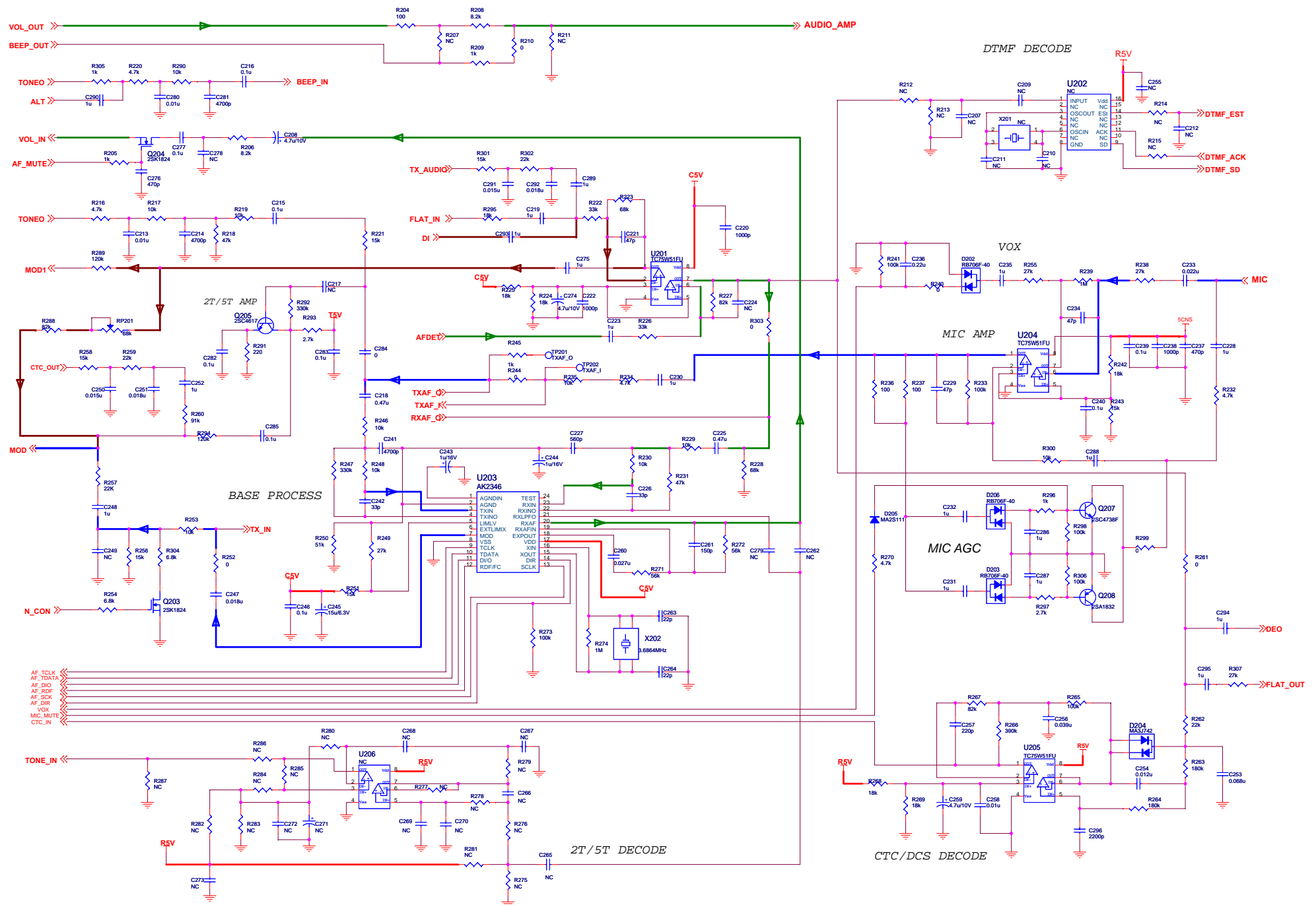
TC-780M(440-470MHz) Schematic Diagram (PLL&VCO Circuit)



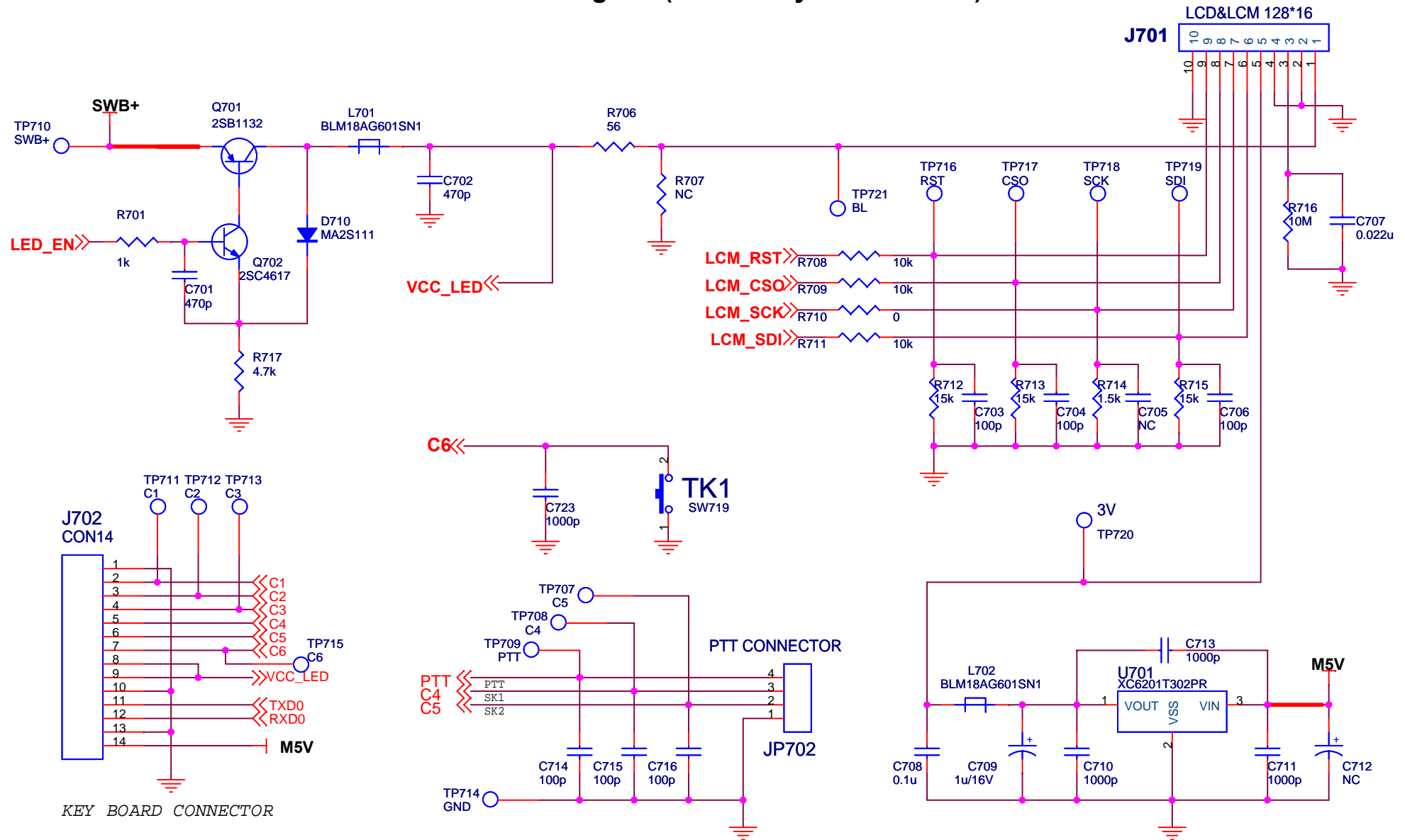
TC-780M Schematic Diagram (Audio AMP & EXT Interface Circuit)



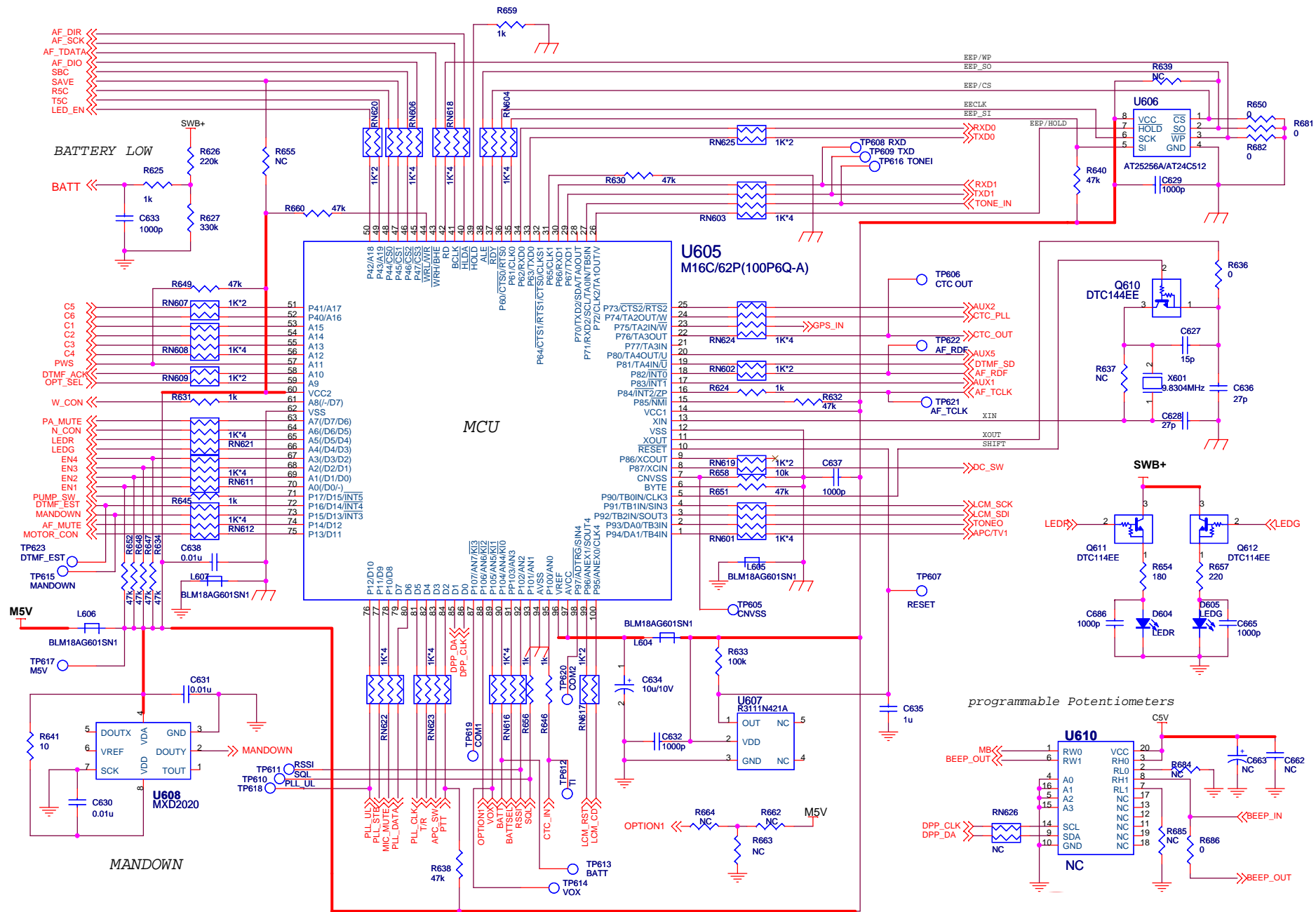
TC-780M Schematic Diagram (Baseband Circuit)



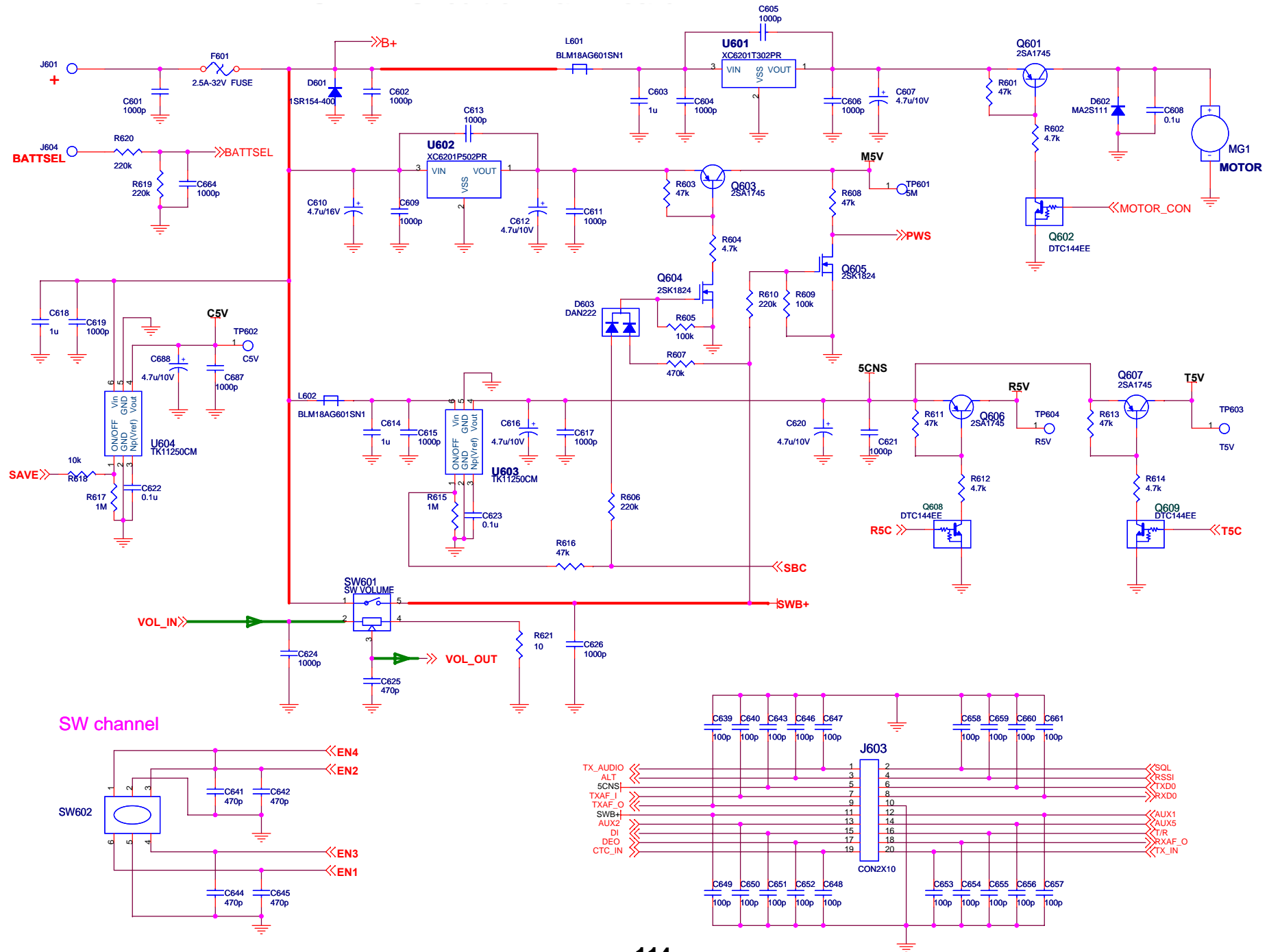
TC-780M Schematic Diagram (LCD & Keyboard Circuit)



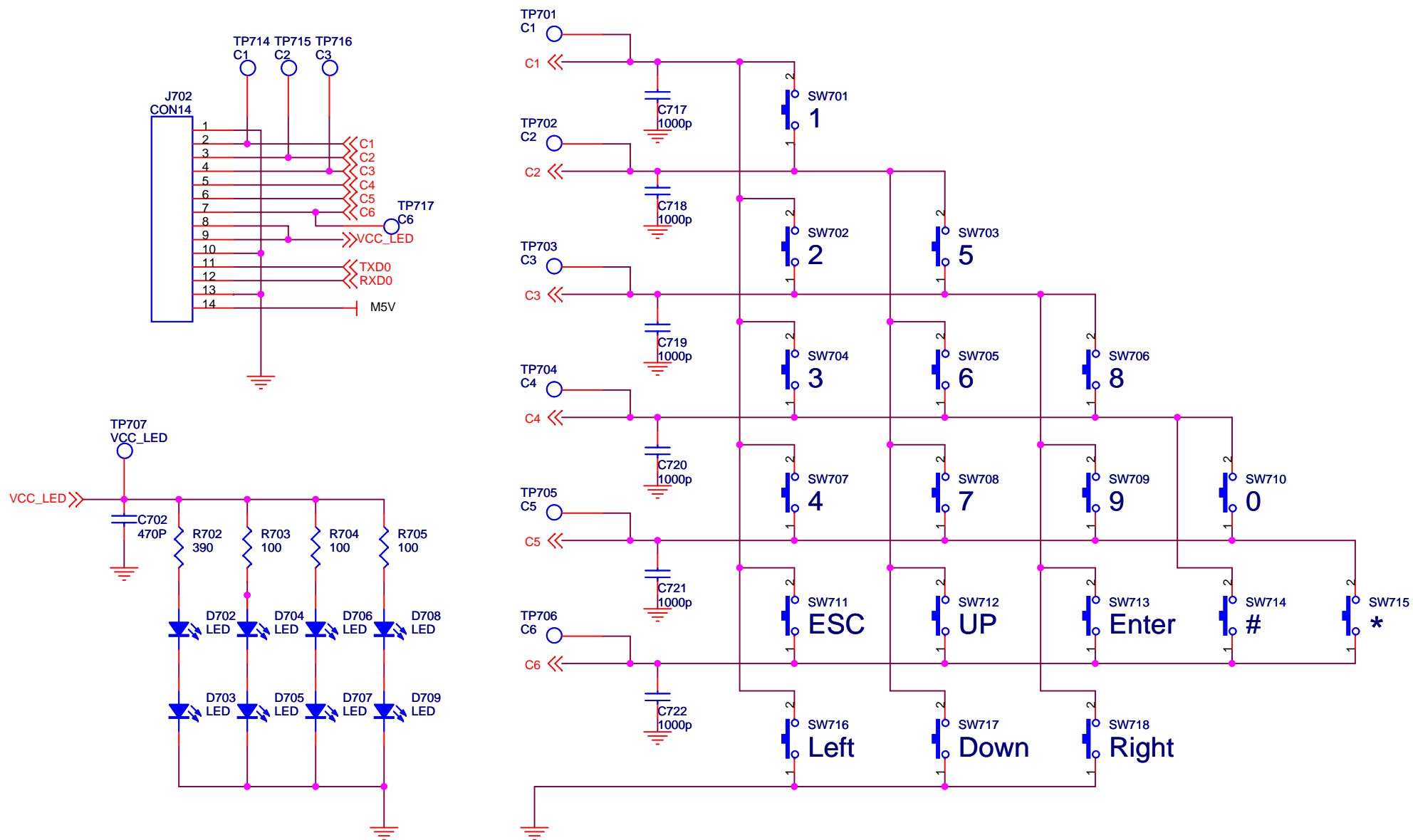
TC-780M Schematic Diagram (MCU Circuit)



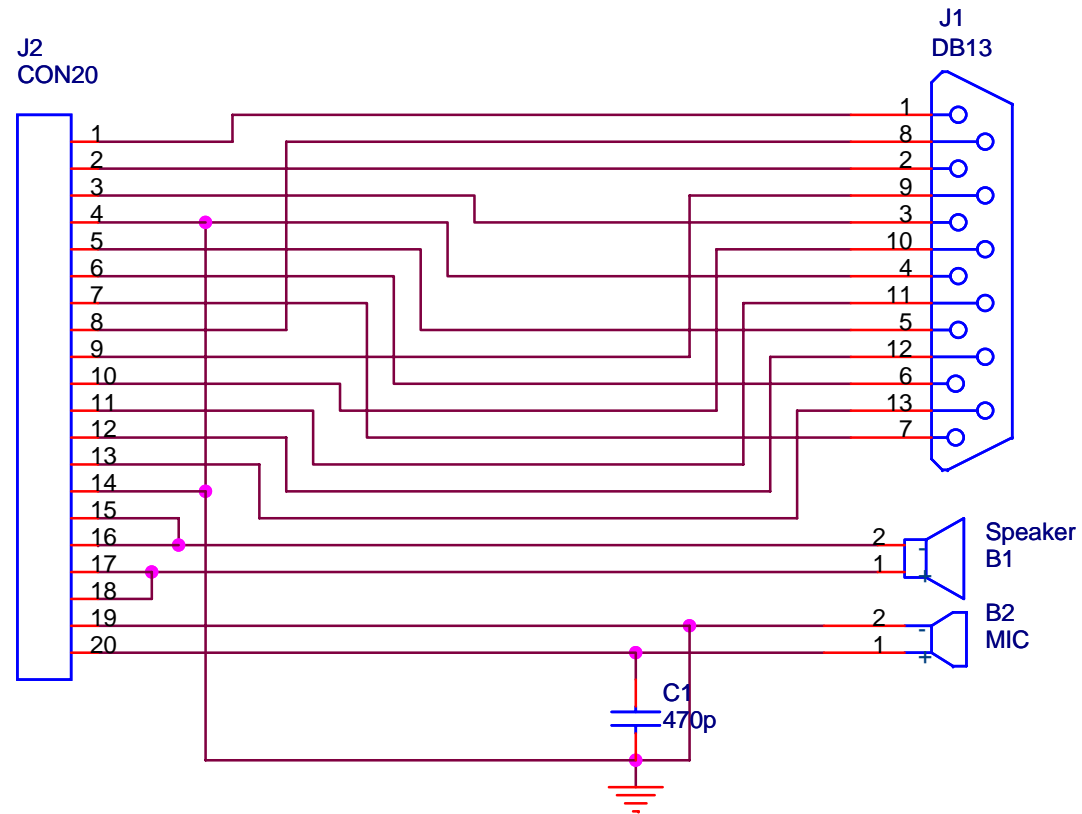
TC-780M Schematic Diagram (Power Circuit)



TC-780M Schematic Diagram (LED & Keyboard Circuit)



TC-780M FPC Connector Schematic Diagram



Specifications

General	
Frequency Range	UHF: 350-390MHz 400-440MHz 440-470MHz
Channel Capacity	32
Channel Spacing	25 KHz /12.5KHz
Operating Voltage	7.4V
Battery	1700mAh Li-Ion battery
Battery Life (5-5-90 duty cycle)	13 hours
Operating Temperature	-25℃ +60℃
Dimensions (H×W×D) (with battery, without antenna)	126×55×34mm
Weight (with antenna & battery)	330.5g
Frequency Stability	±2.5ppm
Receiver	
Sensitivity	0.25/0.28μV
Selectivity	70/60dB
Intermodulation	65dB
Spurious Response Rejection	70dB
Rated Audio Power Output	0.8W
Rated Audio Distortion	<3%
Transmitter	
RF Power Output	5W/1W
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
Modulation Limiting	5/2.5KHz
FM Noise	45/40dB
Modulation Distortion	<3%

All Specifications are tested according to TIA/EIA-603, and subject to change without prior notice due to continuous development.

HYT endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and design are subject to change without prior notice due to continuous technology development. Changes which may occur after publication are highlighted by Revision History contained in Service Manual.

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